

PERMATITE WINDOWS



WELFARE ISLAND HOSPITAL GROUP, New York City

Associated Architects—York & Sawyer, Butler & Kohn

Builders—Cauldwell-Wingate Co.

OF BRONZE OR ALUMINUM

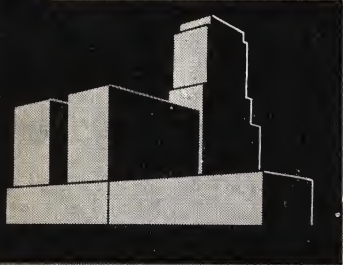
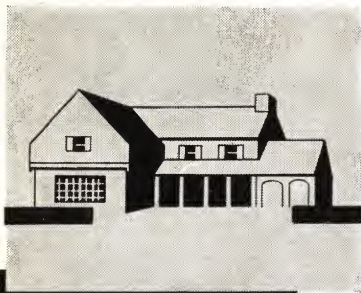
Comprising DOUBLE-HUNG WINDOWS
CASEMENT WINDOWS • UTILITY WINDOWS
CASEMENT DOORS • • *Also including*
windows of "POLACHEK" Extra heavy sections



GENERAL BRONZE CORPORATION

34-19 Tenth Street

Long Island City, N.Y.



OVER many years, General Bronze has been steadily advancing the design and construction of windows—introducing improvements which have kept this company continuously ahead.

Today—it's the remarkable, new and patented Permatite Windows. These windows—casement or double hung—meet the architect's requirements for windows of the finest workmanship and materials. They meet the architect's requirements for highest quality and beauty—at a price that is much below that formerly paid for windows of lower efficiency and no higher quality. They are built with the same superb skill and craftsmanship that are characteristic of all General Bronze architectural and ornamental metal work.

This catalog tells the story—gives specific details of design, construction and operation. We invite your consideration.

PERMATITE

(PEREMI PATENT)

Made in Standard and Special Sizes in Bronze or Aluminum by

GENERAL BRONZE CORPORATION

For Residences, Apartment Houses and Other Buildings Where Economical Maintenance, High Efficiency and Low First Cost Are of Equal Importance

OUTSTANDING FEATURES OF PERMATITE DOUBLE-HUNG AND CASEMENT WINDOWS

CONTINUOUS RESILIENT WEATHERSTRIPPING (of special metal alloy)—which insures a really air and water-tight seal throughout the entire perimeter of every operating sash, and which will continue fully efficient after many years of use.

SASH OF SEAMLESS TUBULAR CONSTRUCTION, with solidly reinforced corners, which will never sag nor get out of alignment with their frames. This construction also materially retards condensation.

NO OPEN CHANNELS TO ACT AS DIRT POCKETS, in either sash or frame, as weatherstrips seal frame rebates while windows are open. This feature also enhances the finished appearance.

CONTINUOUS GLAZING KEY around glass opening to receive and key glazing compound to its bed, and protect it from weather deterioration.

HEAVY WELDED STEEL SUB-FRAME, with integrally formed weatherfin, completely encircling window; insulated from bronze or aluminum frame.

SPECIALLY DESIGNED HARDWARE, sturdy, smooth-operating, of solid bronze, finished to match windows and built to last a lifetime.

NO RUSTING, NO PAINTING, NO UPKEEP, will not wear out, and so requires no replacements; does not leak air, and so reduces fuel bills, and eliminates drafts and cold spots in rooms.

NARROW SASH AND FRAME MEMBERS INCREASE GLASS AREA, and thereby admit more light without increasing window size.

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



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PERMATITE WINDOWS ARE MADE in the FOLLOWING TYPES:

(For standard sizes see charts on pages 4 and 11; for installation details see pages 8 and 18)

ALUMINUM DOUBLE-HUNG

- Series H2.** Aluminum double hung window for openings up to 4'-0" x 7'-6". For details of construction see pages 5 and 6.
Series H3. Aluminum double hung window for openings up to 5'-0" x 8'-6". For details of construction see Note, page 7.

BRONZE DOUBLE-HUNG

- Series H.** Bronze double hung window for openings up to 4'-0" x 7'-6". For details of construction see Note, page 5.
Series H1. Bronze double hung window for openings up to 5'-0" x 8'-6". For details of construction see page 7.

ALUMINUM CASEMENT

- Series K1.** Aluminum out-swinging casement window. For details of construction see pages 12 and 13.
Series K2. Aluminum in-swinging casement window. For details of construction see Note, page 15.

BRONZE CASEMENT

- Series K.** Bronze out-swinging casement window. For details of construction see Note, page 12.
Series K3. Bronze in-swinging casement window. For details of construction see page 15.
Series K4. Bronze casement window for apartment houses and public buildings. For details of construction see page 14.

BRONZE OR ALUMINUM SPECIAL WINDOWS AND DOORS

Basement and Utility Casement Windows. See page 16.
 Doors, Transoms and Sidelights. See page 17.

FOR DETAILS OF EXTRA HEAVY SECTIONS FOR
 MONUMENTAL BUILDINGS — see pages 20 to 22

LABORATORY TESTS FOR AIR INFILTRATION

Tests made in the Laboratory of Daniel Guggenheim School of Aeronautics, at New York University, produced the following results:

TESTS ON DOUBLE-HUNG WINDOWS

PERMATITE Double-Hung Windows (5'-0" wide by 8'-0" high) were tested with a view to determining what could be expected of this design under extreme conditions.

At a wind velocity of 25 miles per hour (the usually stipulated velocity in standard test specifications) the volume of air infiltration per foot of sash perimeter was but 8.4 cubic feet per hour, or 0.14 of a cubic foot per minute, as compared to 1.25 per minute allowed for such windows in U. S. Government specifications. Even at 40 miles per hour velocity (the pressure from which bulged the glass deeply and seemed on the point of blowing it out) air infiltration was but 0.4 of a cubic foot per minute, less than one-third of the air leakage allowed by the Government with a wind velocity of only 25 miles per hour.

TESTS ON CASEMENT WINDOWS

The Laboratory made air infiltration tests on three PERMATITE Casement Windows, two bronze, one aluminum. In no case was its staff able to send us a chart showing the infiltration at the various wind velocities developed, for the reason that its sensitive recording instruments FAILED TO REGISTER ANY MEASURABLE AMOUNT OF AIR INFILTRATION, EVEN AT A WIND VELOCITY OF 40 MILES PER HOUR.

We quote from Dr. Alexander Klemin's letter forwarding to us these test reports:

"The tests indicate that both the double hung and casement windows are unusually air-tight—as a matter of fact, the casement windows had so little infiltration that no air flow was detected up to pressures corresponding to speeds of 40 miles an hour."

Original certified test reports will be exhibited gladly upon request.



WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



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15 12 PERMATITE DOUBLE-HUNG WINDOWS IN BRONZE AND ALUMINUM



In PERMATITE Double - Hung Windows all exposed members of sash and frame are solid bronze or aluminum, built into a fully concealed and thoroughly insulated steel sub-frame, with corners solidly welded and all possible interstices filled with leak-proof mastic applied under 100 pound air pressure.

Stiles and rails of all sash are made of seamless tubing, the strongest and most rigid structural form obtainable. The extremely narrow members in PERMATITE design afford the maximum of daylight opening. These, in combination with the clean, sharp lines of precise extrusion and the exact fitting of hair line joints, impart an ultra-smart appearance to these windows.

All exposed hardware is of solid bronze, finished to match the windows in color. Adjustable spring sash balances, which tests have proven will outlast the useful life of the building, eliminate the need of weight pockets; thus making it possible to use mullions only $1\frac{1}{8}$ " wide, which overcomes the principal objection to multiple double-hung windows.

In addition, PERMATITE Double-Hung Windows possess several

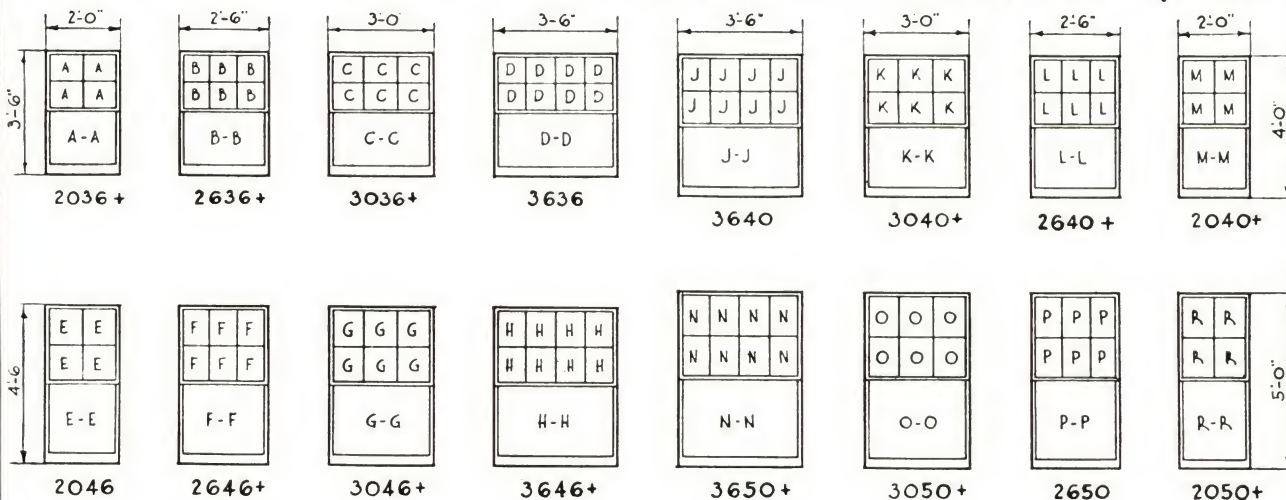
features which surpass any former standards for superior window construction. Taking advantage of the unusually wide smooth contact surface of the outer edge of the sash afforded by its tubular construction, a unique patented design of weatherstripping has been employed. Weatherstrips of hard resilient special metal alloy are rolled in such shape and so held in integrally formed pockets in the frame jambs and head, that they form two continuous bands of positively sealing contact, and at the same time a floating contact, between the frame and sash. Similar weatherstrips, housed in pockets in the sill of frame and the meeting rail of upper sash, form continuous sealed contacts with the bottom and top rails, respectively, of lower sash.

These pockets in the frame and meeting rail are of such form that the weatherstrips, while free to move in the direction desired, are securely trapped with all edges fully guarded and concealed. Thus when sash are opened, the weatherstrips appear as a part of the frame's smooth surface, with no sharp edges to offend the eye or catch fingers or fabrics. The wide lines or bands of continuous metal-to-metal contact so effectively seal the closed window against leakage as to give it the greatest resistance to air infiltration of any double-hung window on the market. (See Page 3.)

Notwithstanding the greater contact surfaces in PERMATITE Windows, the sash operate smoothly and with surprising ease. They will not bind or stick because they actually are floating between the jambs on the yielding cushions created by the self-adjusting opposing pressures of the weatherstrips. Thus these windows will function with full efficiency even if erected slightly out of plumb.

Full outside screens in either aluminum or bronze can be supplied for PERMATITE double-hung windows.

• PERMATITE • DOUBLE • HUNG • WINDOWS • • STANDARD • SIZES • OF • RESIDENTIAL • SERIES • H • & • H2 •



• GLASS • SIZES •

A	$10\frac{3}{16} \times 9\frac{1}{16}$	A-A	$21\frac{1}{2} \times 18\frac{7}{16}$
B	$8\frac{15}{16} \times 9\frac{1}{16}$	B-B	$27\frac{1}{2} \times 18\frac{7}{16}$
C	$10\frac{15}{16} \times 9\frac{1}{16}$	C-C	$33\frac{1}{2} \times 18\frac{7}{16}$
D	$9\frac{5}{8} \times 9\frac{1}{16}$	D-D	$39\frac{1}{2} \times 18\frac{7}{16}$
E	$10\frac{3}{16} \times 12\frac{1}{16}$	E-E	$21\frac{1}{2} \times 24\frac{7}{16}$
F	$8\frac{15}{16} \times 12\frac{1}{16}$	F-F	$27\frac{1}{2} \times 24\frac{7}{16}$
G	$10\frac{15}{16} \times 12\frac{1}{16}$	G-G	$33\frac{1}{2} \times 24\frac{7}{16}$
H	$9\frac{5}{8} \times 12\frac{1}{16}$	H-H	$39\frac{1}{2} \times 24\frac{7}{16}$

~ NOTE ~ DIMENSIONS • GIVEN • ARE • SIZES • OF •

• OPENINGS ~ MUNTINS • MAY • BE • OMITTED • OR •
• ARRANGED • AS • PREFERRED • ON • SPECIAL • ORDER ~
• TYPES • MARKED • THUS • + • STOCKED • IN • LONG •
• ISLAND • CITY • N.Y. • WAREHOUSE ~ REFER • TO •
• PAGES • 5 • 4 • 6 • FOR • SECTIONAL • DETAILS ~
• USE • ONLY • D.S. • AA • SHEET • GLASS • OR • $\frac{1}{8}$ • POLISHED •
• PLATE • GLASS, • SET • IN • BEST • QUALITY • METAL •
• GLAZING • COMPOUND ~

• GLASS • SIZES •

J	$9\frac{5}{8} \times 10\frac{3}{16}$	J-J	$39\frac{1}{2} \times 21\frac{7}{16}$
K	$10\frac{15}{16} \times 10\frac{3}{16}$	K-K	$33\frac{1}{2} \times 21\frac{7}{16}$
L	$8\frac{15}{16} \times 10\frac{3}{16}$	L-L	$27\frac{1}{2} \times 21\frac{7}{16}$
M	$10\frac{3}{16} \times 10\frac{3}{16}$	M-M	$21\frac{1}{2} \times 21\frac{7}{16}$
N	$9\frac{5}{8} \times 13\frac{3}{16}$	N-N	$39\frac{1}{2} \times 27\frac{7}{16}$
O	$10\frac{15}{16} \times 13\frac{3}{16}$	O-O	$33\frac{1}{2} \times 27\frac{7}{16}$
P	$8\frac{15}{16} \times 13\frac{3}{16}$	P-P	$27\frac{1}{2} \times 27\frac{7}{16}$
R	$10\frac{3}{16} \times 13\frac{3}{16}$	R-R	$21\frac{1}{2} \times 27\frac{7}{16}$

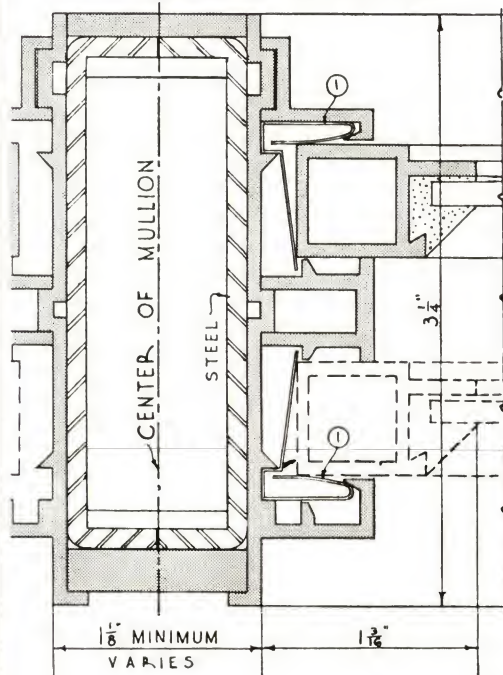
WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



GENERAL BRONZE CORPORATION

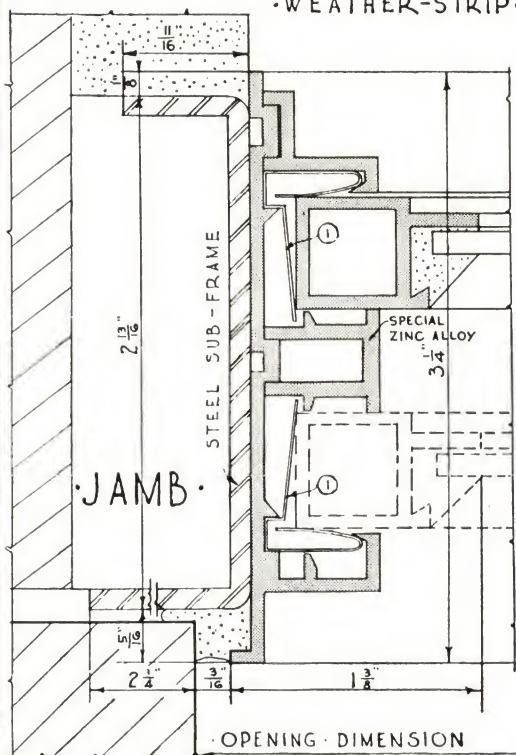
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DETAILS
• PERMATITE •
SERIES • H2 • ALUMINUM
DOUBLE • HUNG • WINDOW
• THESE • SECTIONS • MAY • BE • USED • FOR •
• WINDOWS • UP • TO • 4'-0" • 7'-6" •

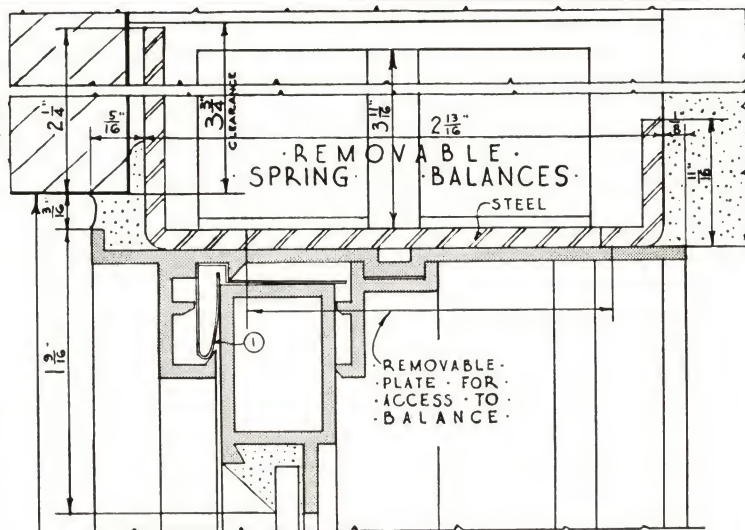


MULLION •

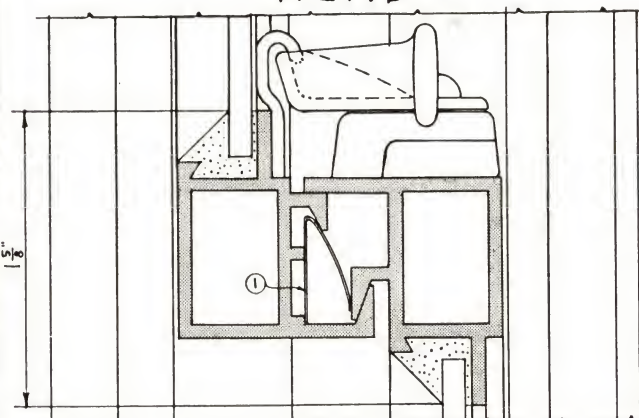
• ① • PATENTED •
• WEATHER-STRIP •



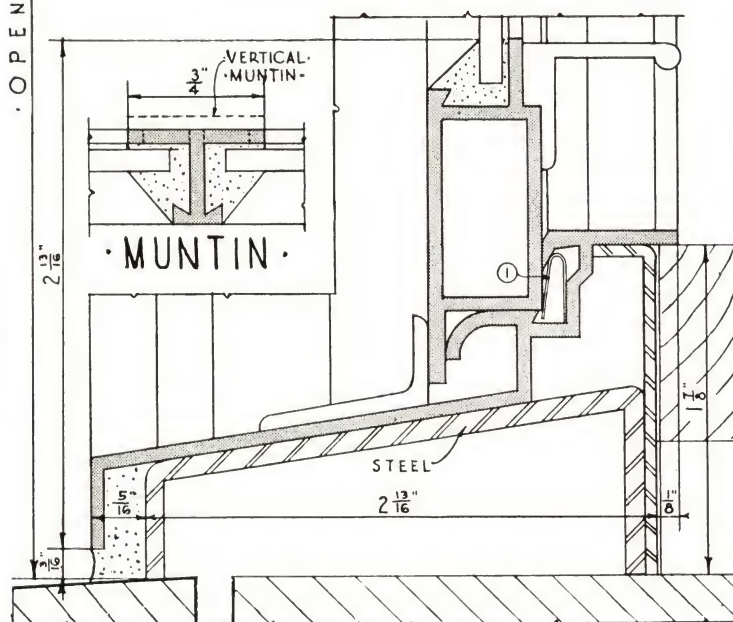
• OPENING • DIMENSION



• HEAD •



• MEETING • RAIL •



• SILL •

NOTE: Construction of Permatite Series H Bronze Double-Hung Window similar to above.

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK

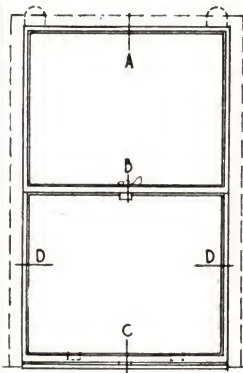


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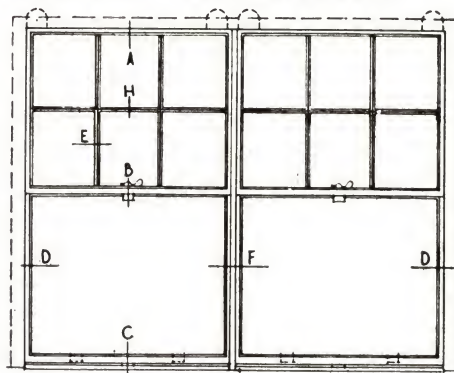
34-19 Tenth Street

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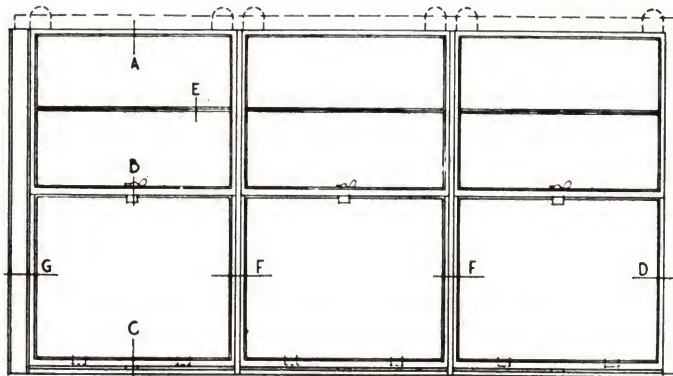
SCALE • $\frac{1}{8}$ • HALF • FULL • SIZE • DETAILS
PERMATITE • SERIES • H • $\frac{1}{8}$ • H2 •
• DOUBLE • HUNG • WINDOWS •



• SINGLE WINDOW •
• WITHOUT • MULLION •

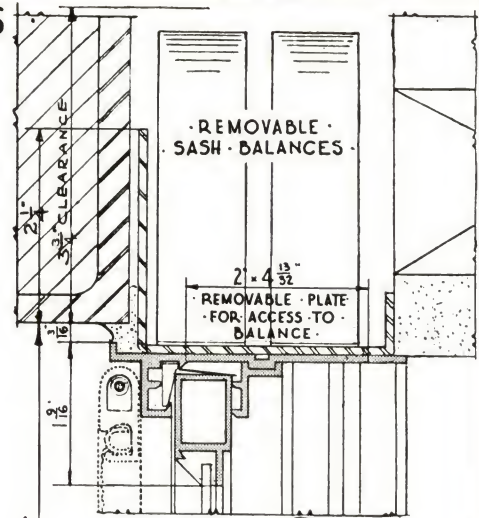


• DOUBLE WINDOW • WITH • MULLION •
• MUNTIN • IN • UPPER • SASH •

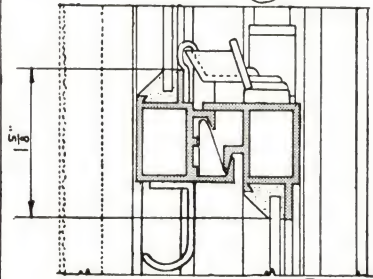


• ELEVATION •
• MULTIPLE • DOUBLE • HUNG • WINDOW •

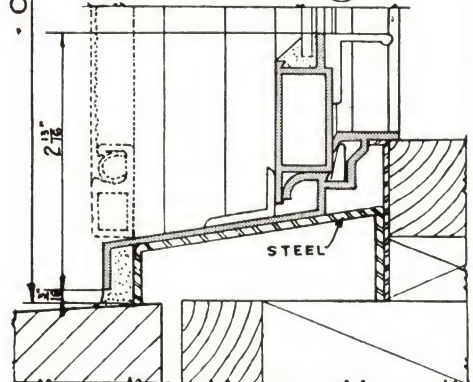
• PLAN •



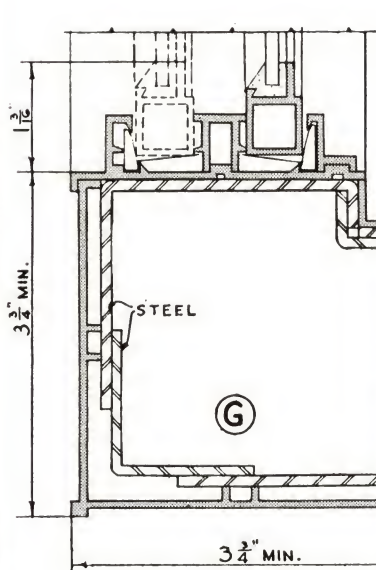
• HEAD • (A) •



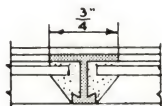
• MEETING • RAIL • (B) •



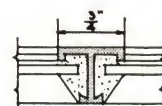
• SILL • (C) •



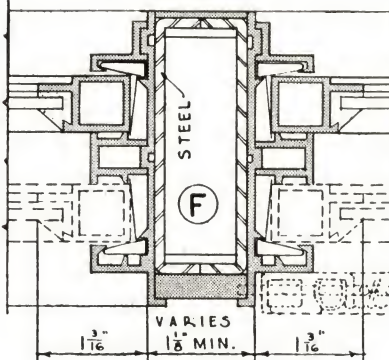
• CORNER • MULLION •



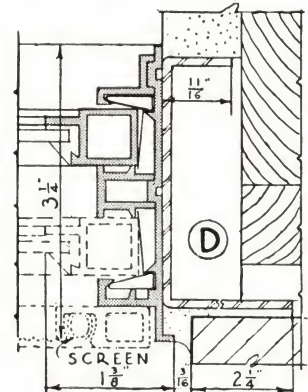
• MUNTIN • (H) •



• MUNTIN • (E) •



• MULLION •



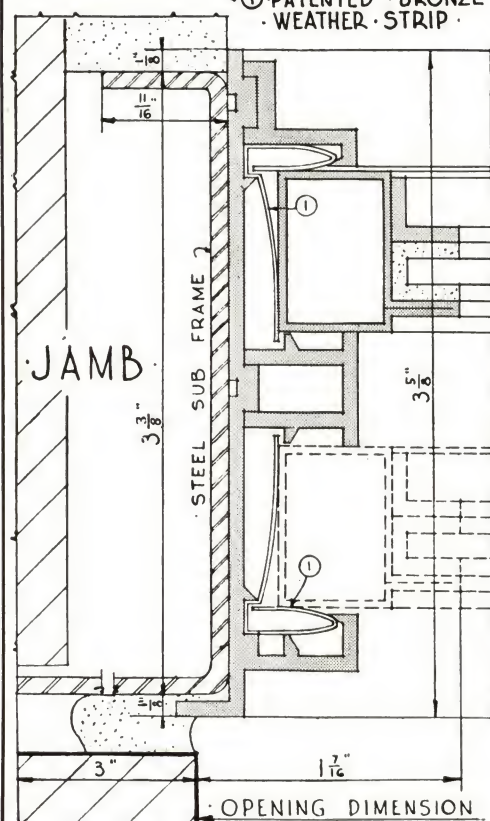
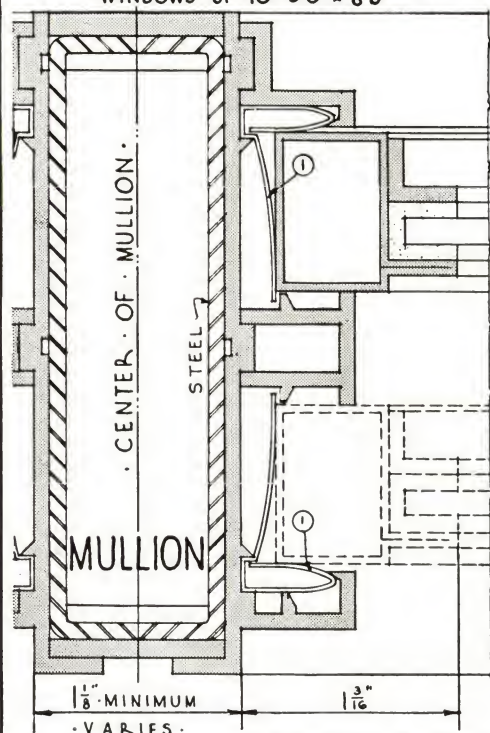
• JAMB •

• OPENING • DIMENSION •

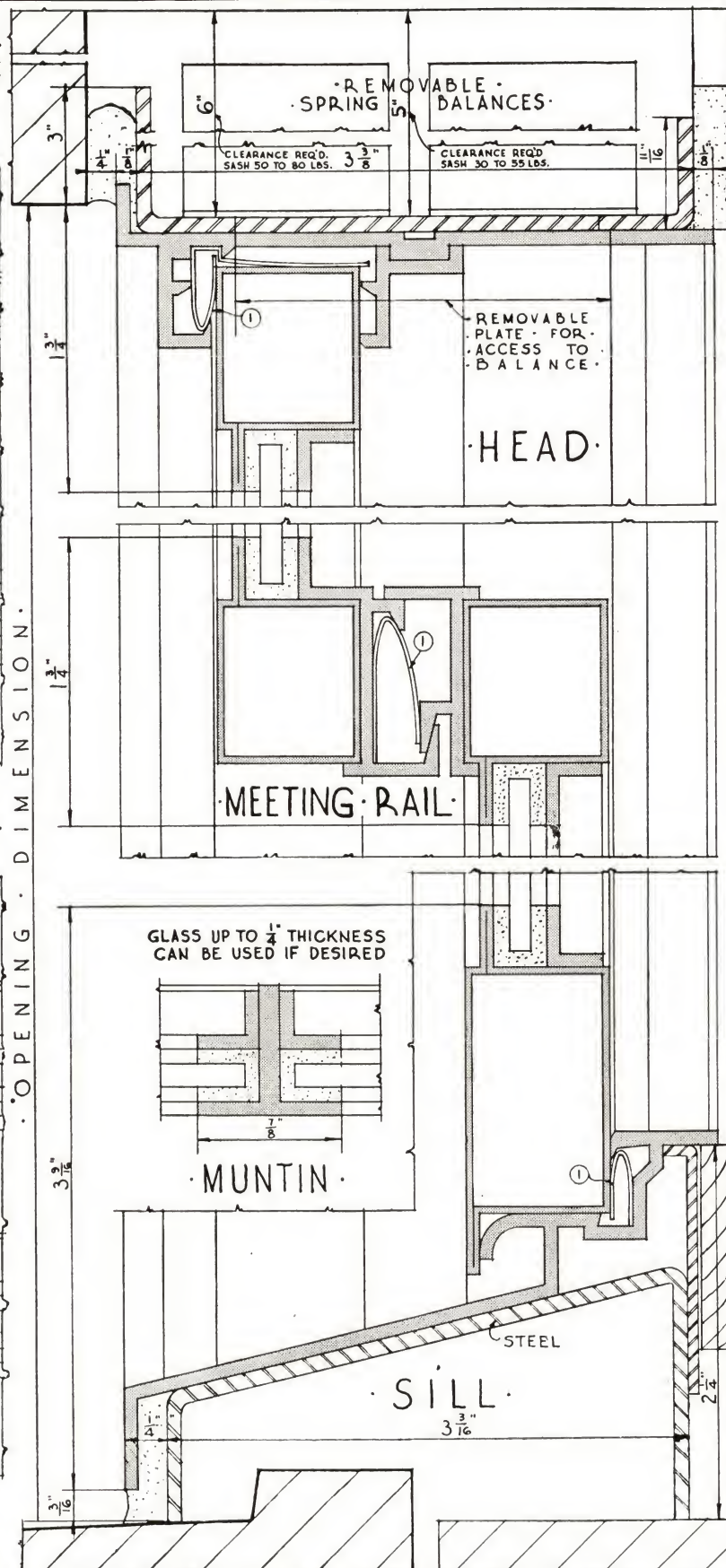
DETAILS
PERMATITE · SERIES · H1 · BRONZE
DOUBLE · HUNG · WINDOW

· NOT STOCKED ·

• THESE SECTIONS MAY BE USED FOR •
• WINDOWS UP TO 5'-0" x 8'-6". •



• ① • PATENTED • BRONZE •
• WEATHER • STRIP •



NOTE: Construction of Permatite Series H3 Aluminum Double-Hung Window similar to above.

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK

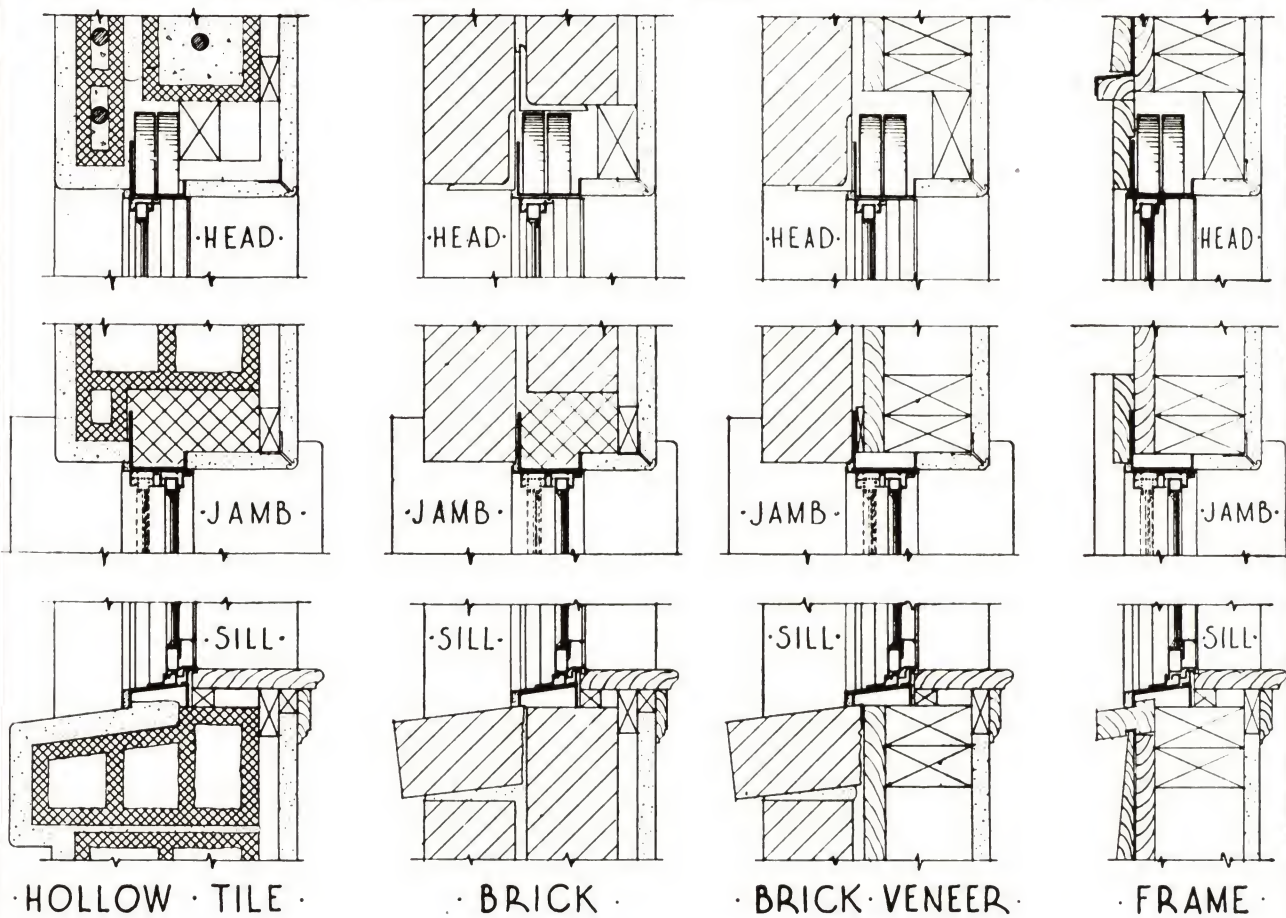


GENERAL BRONZE CORPORATION

34-19 Tenth Street

Long Island City, N.Y.

· INSTALLATION · DETAILS ·
· FOR · ALL · PERMATITE · DOUBLE · HUNG · WINDOWS ·



STANDARD SPECIFICATIONS FOR
PERMATITE SERIES "H" DOUBLE-HUNG WINDOWS

- Scope of Work:** This contractor shall furnish PERMATITE Series "H" bronze (or aluminum) Double Hung Windows, including all hardware and steel sub-frames, as manufactured by General Bronze Corporation, Long Island City, New York, for all window openings shown on Architects drawings for.....
(Here insert extent of windows which are to be bronze or aluminum.)
- Materials:** Except as is hereinafter specified, all parts of window frames and sash shall be of solid bronze (or aluminum). All frame members shall be extruded bronze (or aluminum) not less than #12 B & S gauge. Stiles and rails of all sash shall be of seamless bronze tubing of #17 B & S gauge (or if aluminum of #12 B & S gauge).

Finished members of sash and frames shall be true to dies and all moulded sections shall have clean sharp arrises, free from twists, bends or other imperfections.

After extrusion, each piece shall be drawn through forming dies to insure absolute straightness and uniform thickness throughout its length.

Weatherstripping shall be of hard resilient special metal alloy of the required thickness to resist movement from the pressure exerted by wind at a velocity of 60 miles per hour.

Each window shall be provided with steel sub-frame, formed into special channel shape from #12 U. S. gauge blue annealed sheet; welded at corners into a continuous frame.

- Design, Construction and Workmanship:** Jamb, head and sill members of frames shall be designed to provide integrally formed pockets to receive and retain the metal weatherstripping in such manner that no raw edge of same will be exposed. Weatherstripping at jamps and head shall be so formed and positioned as to provide two continuous lines of flexible but positively sealing

WINDOWS · REVOLVING DOORS · TABLETS · ARCHITECTURAL METAL WORK



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contact between frame and closed sash without in any way binding the sash when operated. Similar weatherstrips shall be housed in the sill of the frame and in the meeting rail of the upper sash to form continuous sealed contact with top and bottom rails of lower sash. Weatherstripping and its housings shall be so formed that strips may be readily removed or replaced without dismantling the window.

Tubular stiles and rails of sash shall be seamless, designed with overlapping flanges to effect face contacts with the frame

members and so formed as to provide a continuous wedge shaped groove all around the sash opening to effectively key the glazing putty in its bed and permanently retain it in place. The design of the sash and their engagement with the frames shall be such as to prevent the sash from rattling when in any position.

The outer flange of the steel channel sub-frames shall be extended to form a continuous fin or weather stop for the entire extent of the window jambs and head. Provide holes at proper spacings in these extended flanges to receive built-in anchors or bolts, for anchoring windows to the walls. Removable access plates shall be provided in the heads of all window frames and sub-frames to afford access to sash balances.

All joints, copes and miters shall be precision machined and carefully fitted to create tight, hairline joints. All holes, slots, etc., shall be accurately drilled to template and holes for machine screws carefully tapped. Removable members such as parting strips, guide stops, access plates, etc., shall be accurately machined and shop fitted. All screws, bolts and rivets shall be made from special alloys to provide maximum strength at fastenings and, where exposed, shall match window material in color.

All material shall be carefully inspected before assembly to insure same has been accurately and thoroughly prepared. All surfaces of sub-frames shall be given a heavy coat of bitumastic paint before attaching non-ferrous frame members to same. Finish jambs, heads, and sills are to be riveted to corresponding members of sub-frames under pressure; then assembled into complete frame units by solidly welding each corner. After welding, all corners shall be filled with leak proof compound under 100 lb. air pressure. Stiles and rails of sash shall be assembled by welding or sweating together at corners which shall first be heavily reinforced. Ample reinforcements shall be built into the sash to receive the hardware.

Removable members shall be secured by special head machine screws of proper size and approved spacings. All other fastenings of exposed members shall be fully concealed.

(NOTE: If required, the following should also be included.)

Provide muntins, arranged as shown, neatly and accurately fitted and assembled at the shop. Intersections of muntins and between muntins and sash members shall be fully lapped to insure firm engagement.

Provide, where shown, mullions between double-hung units amply and continuously reinforced with steel to insure rigidity. All contacts between mullions and steel reinforcements shall be fully insulated by an extra heavy coat of bitumastic paint, applied before mullion is assembled. Mullion jambs shall fully correspond with jambs hereinbefore specified.

4. **Hardware:** Each double-hung window shall be equipped with four (4) completely housed adjustable sash balances, mounted within the head of the frame in such manner that the weight of the sash is not sustained by the fastening screws. Pulley tapes shall be of special alloy bronze to safely meet all strains to which they may be subjected. (If windows are aluminum, pulley tapes shall be of white metal.) All other parts of sash balances shall be of steel. Balances shall be removable. Sash tapes shall be firmly attached to sash rails by specially designed fasteners.

Each pair of double-hung sash shall be fitted with solid bronze hardware consisting of the following: two sash lifts, one sash lock, one sash pull, two sash bumpers for upper sash, and two combination bumpers and tape hooks for lower sash. For aluminum windows, finish hardware shall be dull chrome plated to match aluminum.

5. **Shop Drawings:** Before proceeding with the work, this contractor shall prepare and submit, for Architect's approval, complete shop drawings showing all parts of the frames and sash and fully dimensioned. Shop drawings shall be submitted in triplicate and no work shall be proceeded with until Architect's approval has been received.
6. **Infiltration Tests:** All double hung windows shall be so designed and constructed that, when subjected to an air pressure equivalent to that exerted by wind at a velocity of twenty-five (25) miles per hour, the infiltration of air through the window shall not exceed one-third ($\frac{1}{3}$) of one cubic foot per minute per linear foot of sash perimeter. One window will be selected at random by the Architect and subjected to this infiltration test. If the first sample shall fail to meet the test, a second will be similarly selected and tested. If it also fails, the Architect may, in his discretion, reject all the windows made, and require new windows to be furnished which will fulfill all the above requirements. All infiltration tests shall be at the expense of this contractor.

The Architect may, but shall not be required to, waive infiltration tests on windows, provided the manufacturer thereof can furnish certified reports of tests, made by a testing laboratory approved by the Federal Government, showing that windows made by the manufacturer of the same type and design as are being furnished on this project have met or exceeded the requirements hereinabove specified.

7. **Protection:** Before shipment, this contractor shall apply an approved protective solution to all exposed surfaces of the frame and sash in order to protect the metal from plaster, etc. The General Contractor shall be required to provide proper protection to the windows to prevent damage during the course of operations and shall remove the same before final inspection and cleaning down of the windows is started.

FINAL: Complete instructions will be mailed at the time of shipment of windows for the proper setting, caulking, grouting, glazing, cleaning and adjustment of the windows. Note that $\frac{1}{8}$ " thick glass should be used and same should be set with a good grade of metal glazing putty. A sufficient quantity of special glazing clips will be furnished with the windows, without charge.

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



GENERAL BRONZE CORPORATION

34-19 Tenth Street

Long Island City, N.Y.

PERMATITE CASEMENT WINDOWS

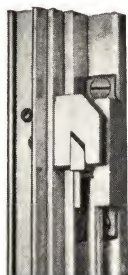
IN BRONZE OR ALUMINUM

PERMATITE Casement Windows have the same high standard of construction as PERMATITE Double-Hung Windows, which are described in detail on page 4. Casement sash are built of seamless tubing, welded at the corners, and sash and frames are of solid bronze or aluminum, built into a fully concealed and thoroughly insulated steel sub-frame, with corners welded and in-

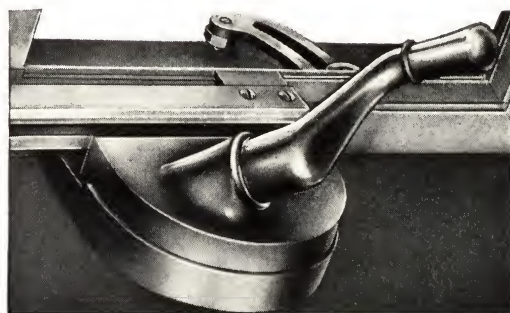
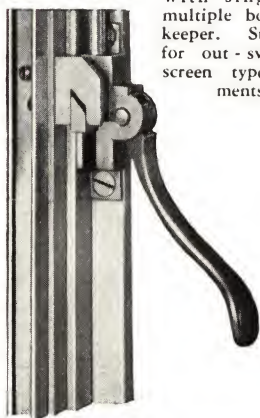


terstices filled with mastic under pressure, thus making the entire window leakproof. Screens can be supplied for PERMATITE Casement Windows in either bronze or aluminum. The ease of installing or removing these screens is indicated in the adjoining illustration, which illustrates type 4426+. (See opposite page.)

PERMATITE CASEMENT WINDOW HARDWARE



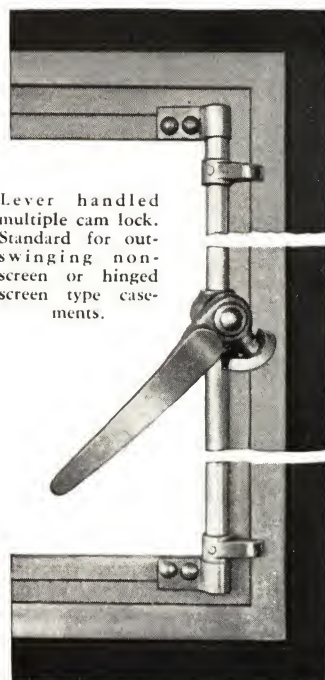
Lever handled locking device with single or multiple bolt and keeper. Standard for out-swinging screen type casements.



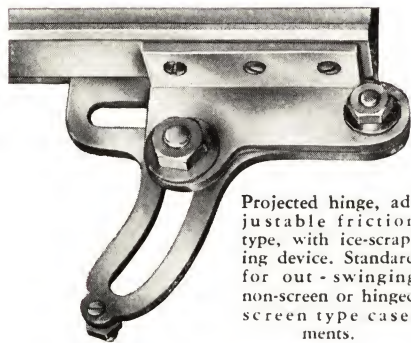
Worm and gear sash operator. Standard for out-swinging screen type casements.



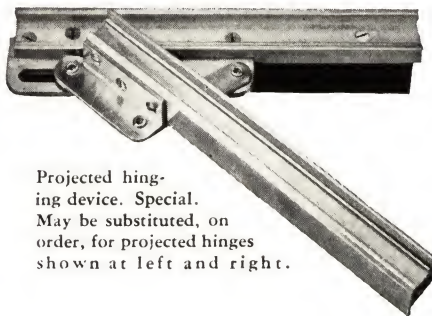
Telescoping bar sash adjuster with positive locking device. Standard for out-swinging screen type casements over bottom ventilator sash.



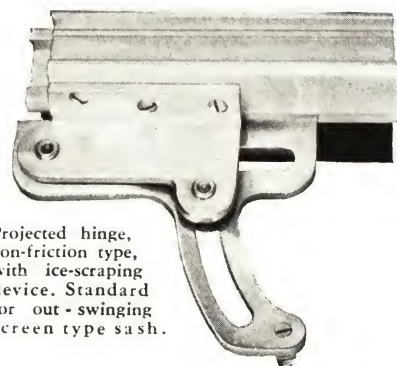
Lever handled multiple cam lock. Standard for out-swinging non-screen or hinged screen type casements.



Projected hinge, adjustable friction type, with ice-scraping device. Standard for out-swinging non-screen or hinged screen type casements.



Projected hinging device. Special. May be substituted, on order, for projected hinges shown at left and right.



Projected hinge, non-friction type, with ice-scraping device. Standard for out-swinging screen type sash.

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



GENERAL BRONZE CORPORATION

34-19 Tenth Street

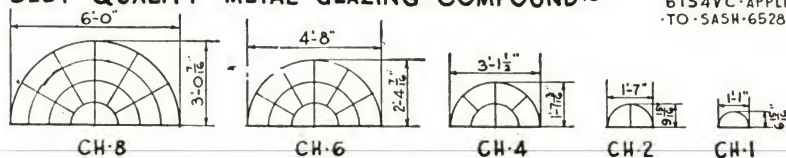
Long Island City, N.Y.

• PERMATITE • CASEMENT • WINDOWS •
• STANDARD • SIZES • FOR • SERIES • K • & • K1 •

12	1212 +	22	2214	4224	4214 V.C. +	6224 V.C. +	6224	8224 V.C.
13+	1313 +	23	2316 +	4326 +	4316 V.C. +	6326 V.C. +	6326	8326 V.C. +
14	1413 +	24 +	2416 +	4426 +	4416 V.C. +	6426 V.C. +	6426	8426 V.C. +
14	1414	24 +	2418 +	4428 +	4418 V.C.	6428 V.C.	6428	8428 V.C.
15	1514	25	2518	4528	4518 V.C. +	6528 V.C. +	6528	8528 V.C. +
16	1614	26	2618	4628	4618 V.C.	6628 V.C. +	6628	8628 V.C.

• STATE • HAND • WHEN • ORDERING • SINGLE • VENT • WINDOWS •

~NOTE~ DIMENSIONS • GIVEN • ARE • SIZES • OF • OPENINGS ~
• WINDOWS • WITH • SINGLE • VENTS • ARE • MADE • EITHER • RIGHT •
• OR • LEFT • HAND • VIEWED • FROM • OUTSIDE ~ V.C. VENT • IN •
• CENTER ~ TYPES • MARKED • THUS + • STOCKED • IN • LONG •
• ISLAND • CITY • N.Y. WAREHOUSE ~ SEE • PAGES • 12 to 15 •
• FOR • SECTIONAL • DETAILS ~ USE • ONLY • D.S. • AA • SHEET •
• GLASS • OR • 1/8" • POLISHED • PLATE • GLASS • SET • IN •
• BEST • QUALITY • METAL • GLAZING • COMPOUND ~



~MUNTINS • MAY • BE • OMITTED • OR • ARRANGED • AS • PREFERRED • ON • SPECIAL • ORDER ~

• GLASS • SIZES •

A	$7\frac{7}{8} \times 11\frac{13}{16}$	L	$8\frac{3}{4} \times 11\frac{1}{8}$	W	$11\frac{1}{2} \times 11\frac{13}{16}$
B	$8\frac{7}{16} \times 11\frac{13}{16}$	M	$8\frac{1}{16} \times 11\frac{1}{8}$	X	$10\frac{1}{16} \times 11\frac{13}{16}$
C	$8\frac{7}{16} \times 12\frac{3}{16}$	N	$8\frac{5}{8} \times 11\frac{1}{8}$	Y	$8\frac{5}{8} \times 12\frac{5}{8}$
D	$8\frac{1}{16} \times 11\frac{13}{16}$	O	$8\frac{5}{8} \times 11\frac{7}{16}$	Z	$8\frac{5}{8} \times 11\frac{13}{16}$
E	$8\frac{5}{16} \times 12\frac{3}{16}$	P	$8\frac{7}{8} \times 11\frac{7}{16}$	A'	$11\frac{1}{2} \times 12\frac{3}{4}$
F	$8\frac{5}{16} \times 11\frac{13}{16}$	Q	$8\frac{5}{8} \times 12\frac{1}{2}$	B'	$8\frac{5}{8} \times 12\frac{1}{4}$
G	$8\frac{5}{16} \times 12\frac{3}{16}$	R	$11\frac{1}{2} \times 11\frac{7}{16}$	C'	$8\frac{5}{8} \times 11\frac{13}{16}$
H	$8\frac{5}{8} \times 11\frac{1}{8}$	S	$8\frac{3}{4} \times 11\frac{7}{16}$	D'	$8\frac{5}{8} \times 12\frac{3}{16}$
I	$11\frac{1}{2} \times 11\frac{1}{8}$	T	$8\frac{5}{16} \times 11\frac{13}{16}$	E'	$9 \times 11\frac{7}{16}$
J	$8\frac{5}{8} \times 11\frac{1}{8}$	U	$8\frac{5}{16} \times 11\frac{7}{16}$	F'	$9 \times 11\frac{1}{8}$
K	$11\frac{1}{2} \times 12\frac{1}{2}$	V	$11\frac{1}{2} \times 12\frac{5}{8}$		

• LIGHTS • NOT • LETTERED • ARE • SIZE • "A" •

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK

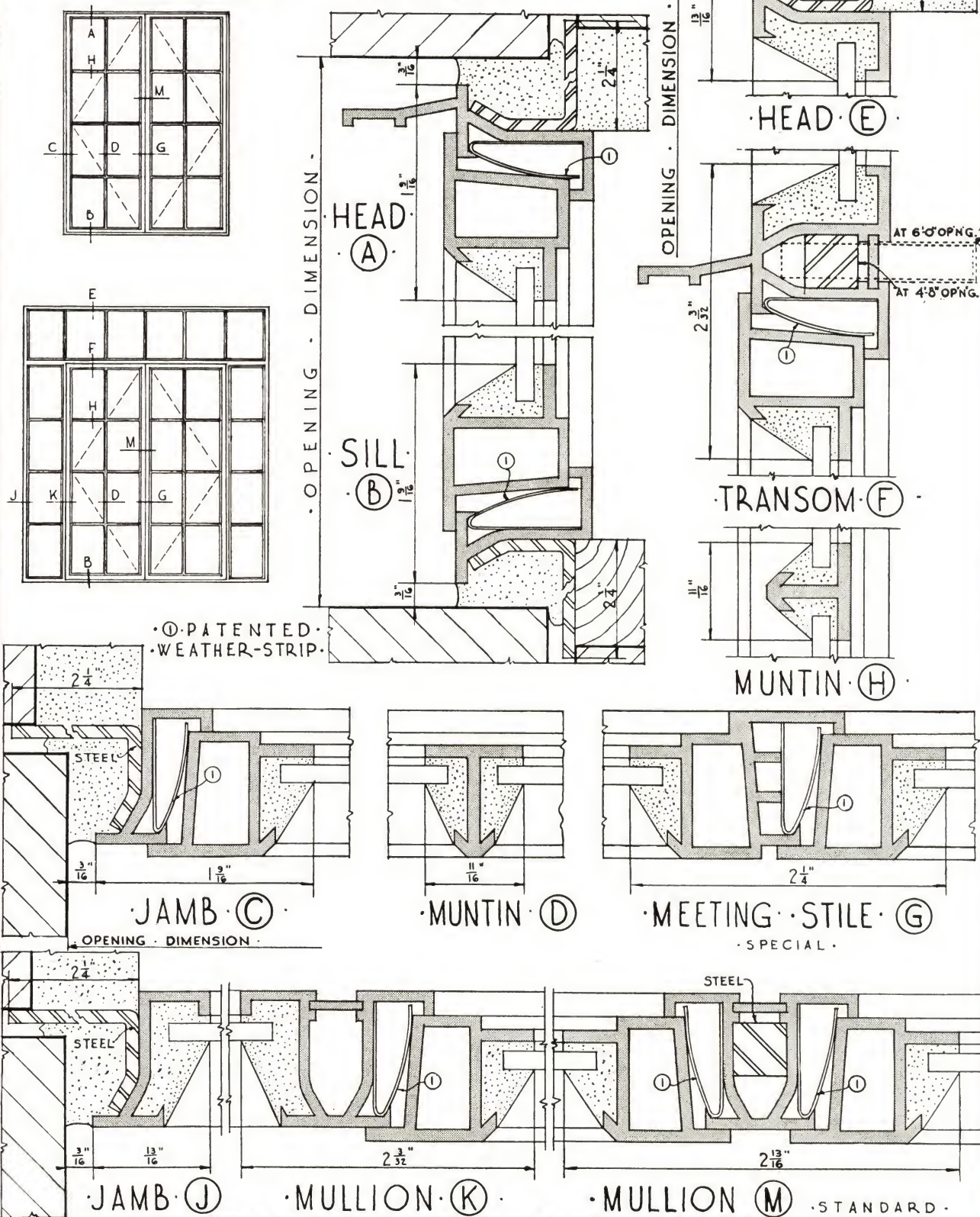


GENERAL BRONZE CORPORATION

34-19 Tenth Street

Long Island City, N.Y.

DETAILS PERMATITE · SERIES · K1 · ALUMINUM · CASEMENT · WINDOW ·

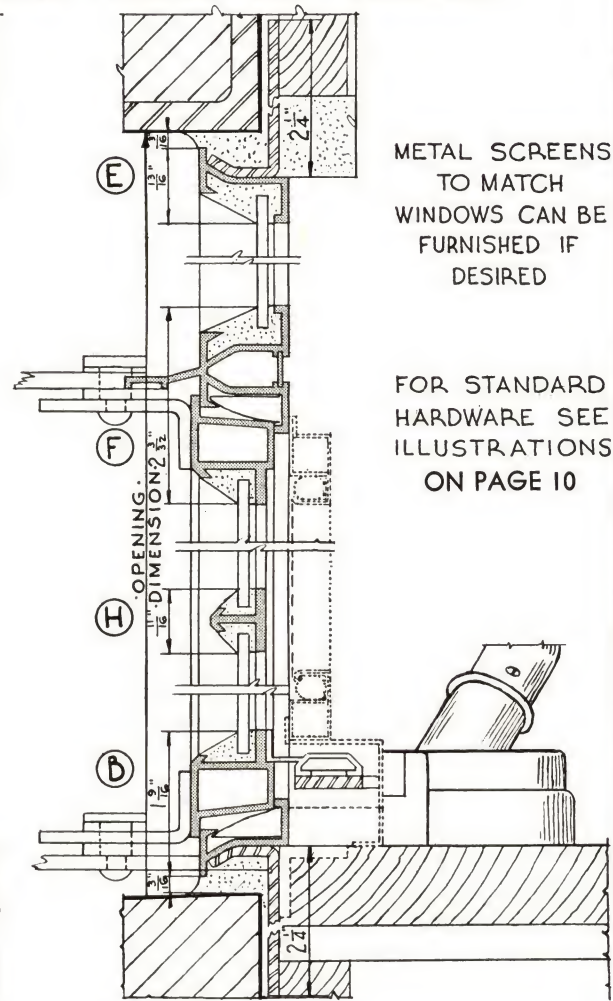
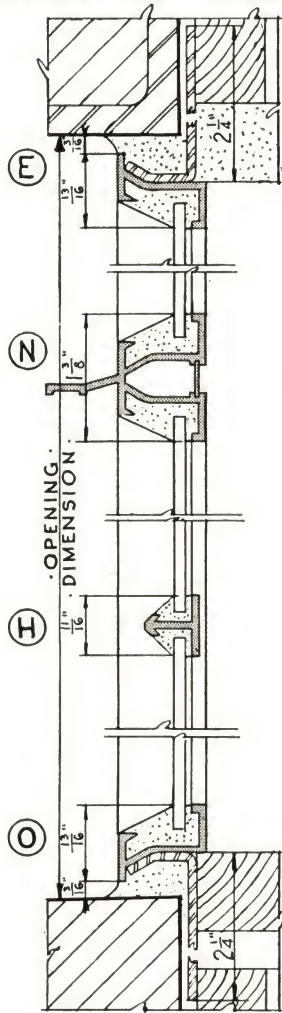
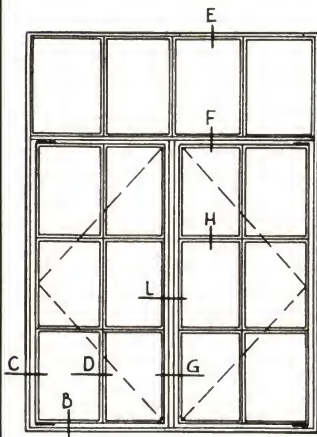
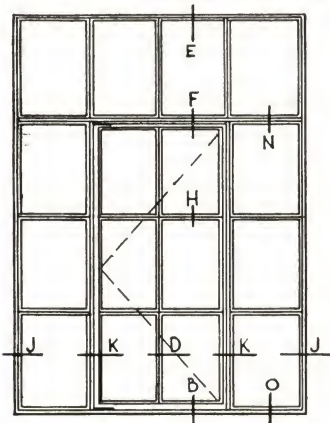


WINDOWS · REVOLVING DOORS · TABLETS · ARCHITECTURAL METAL WORK



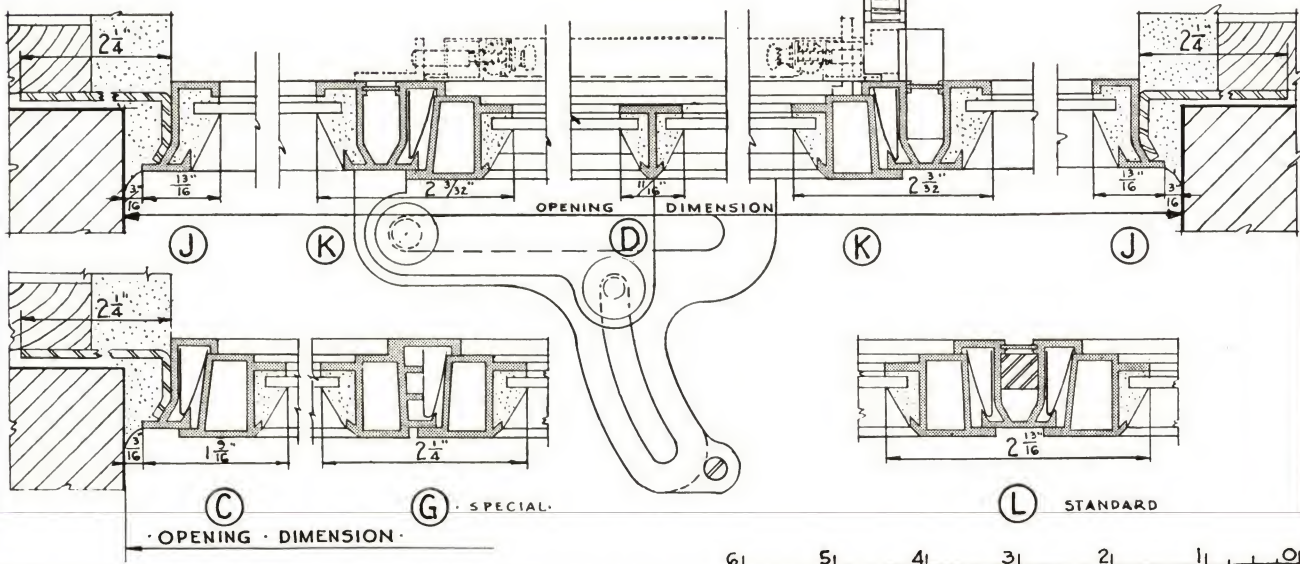
GENERAL BRONZE CORPORATION
34-19 Tenth Street
Long Island City, N.Y.

· SCALE · & · HALF · FULL · SIZE · DETAILS ·
· PERMATITE · CASEMENT · WINDOW ·
· SHOWING · APPLICATION · OF · STANDARD · SCREEN · AND · HARDWARE ·



METAL SCREENS
TO MATCH
WINDOWS CAN BE
FURNISHED IF
DESIRED

FOR STANDARD
HARDWARE SEE
ILLUSTRATIONS
ON PAGE 10



WINDOWS · REVOLVING DOORS · TABLETS · ARCHITECTURAL METAL WORK

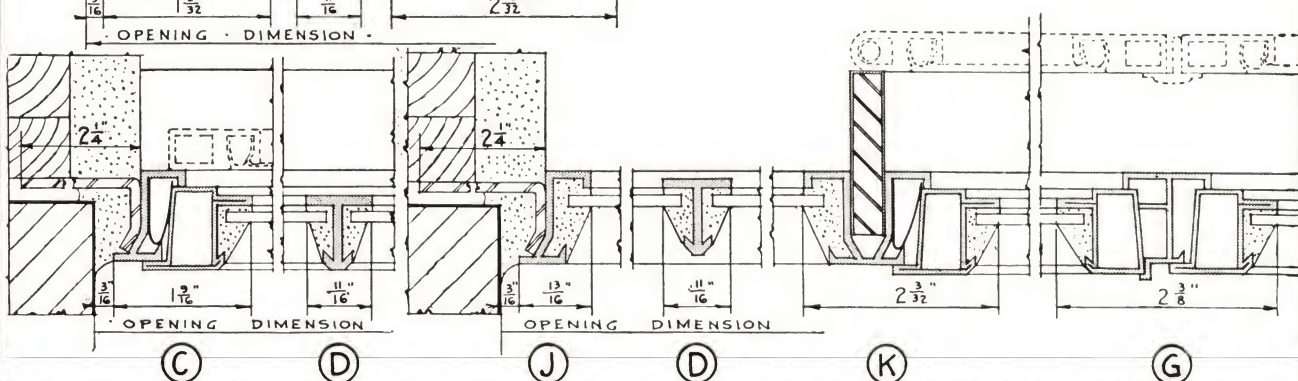
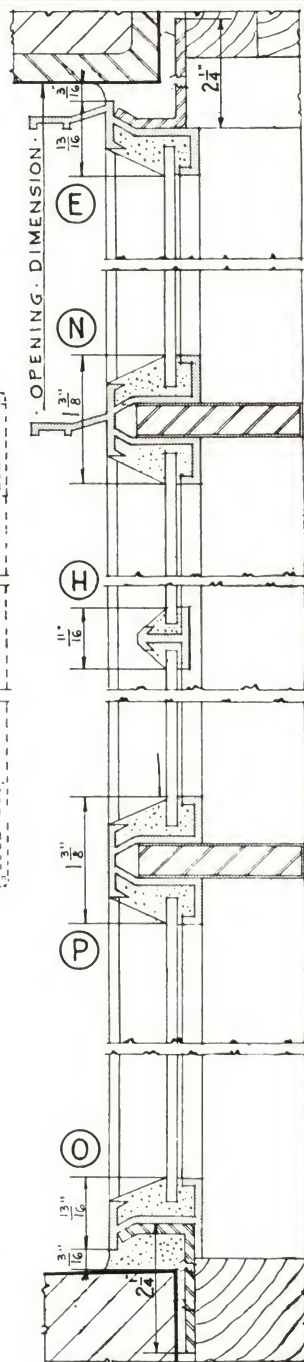
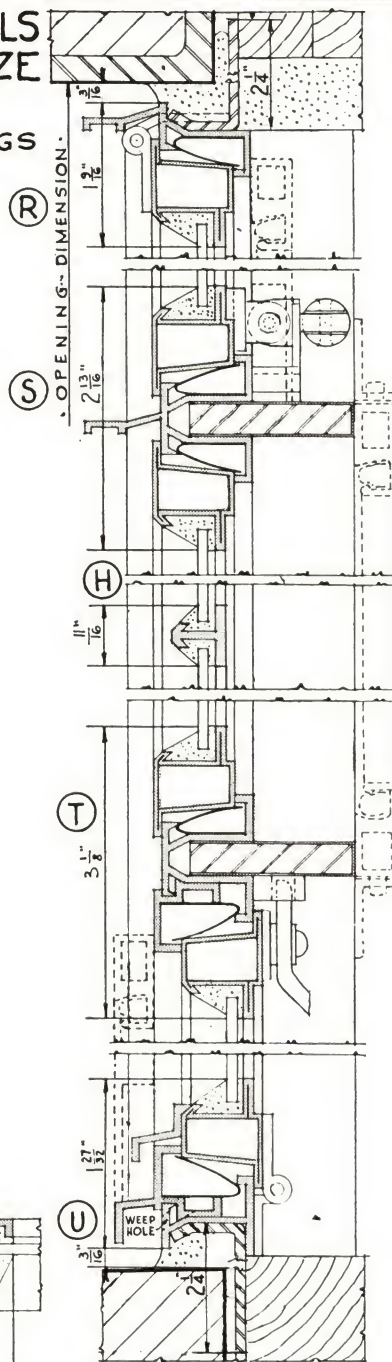
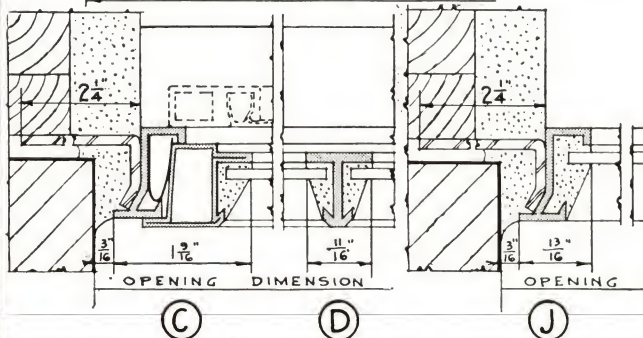
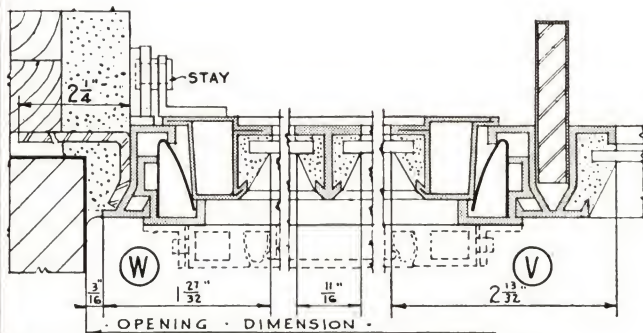
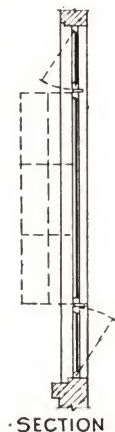
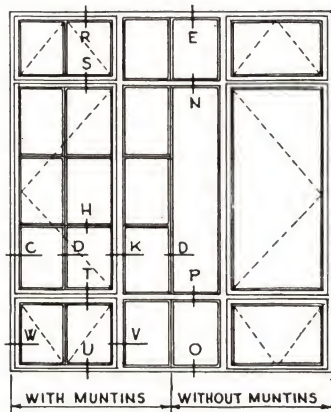
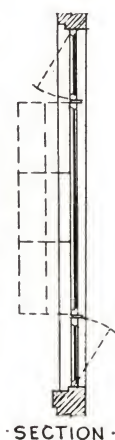
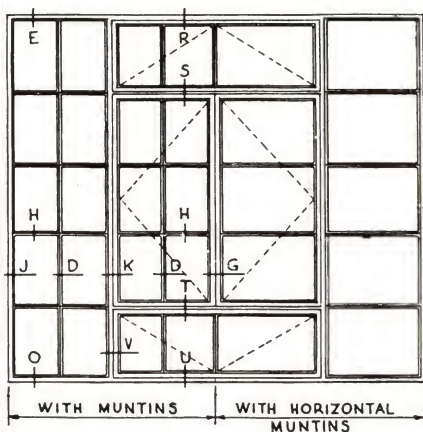


GENERAL BRONZE CORPORATION

34-19 Tenth Street

Long Island City, N.Y.

SCALE · ½ · HALF · FULL · SIZE · DETAILS
PERMATITE · SERIES · K4 · BRONZE
· CASEMENT · WINDOW ·
FOR APARTMENTS · AND · PUBLIC · BUILDINGS

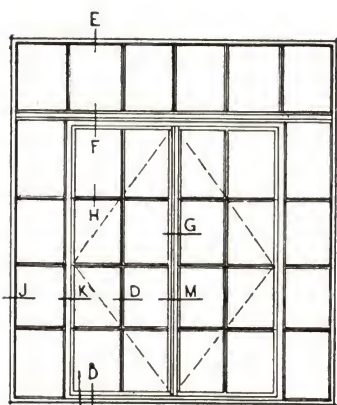
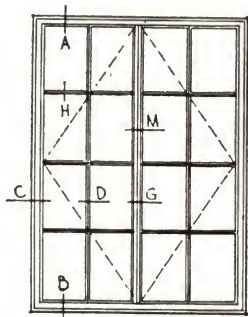


WINDOWS · REVOLVING DOORS · TABLETS · ARCHITECTURAL METAL WORK

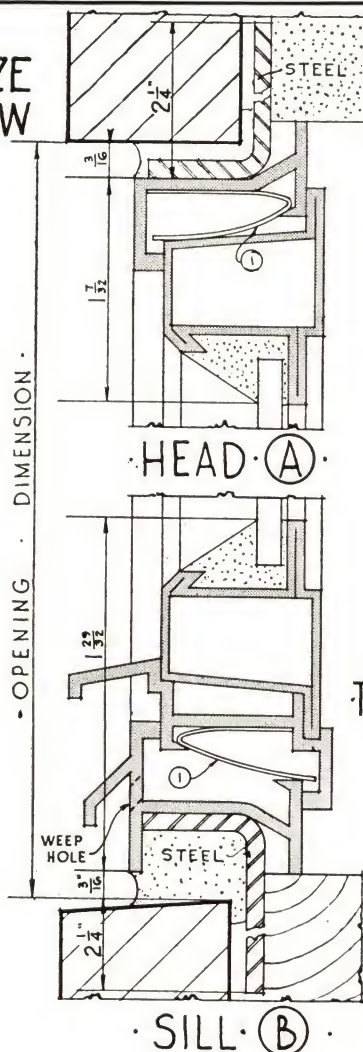


GENERAL BRONZE CORPORATION
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Long Island City, N.Y.

DETAILS
PERMATITE · SERIES · K3 · BRONZE
IN · SWINGING · CASEMENT · WINDOW
· NOT · STOCKED ·

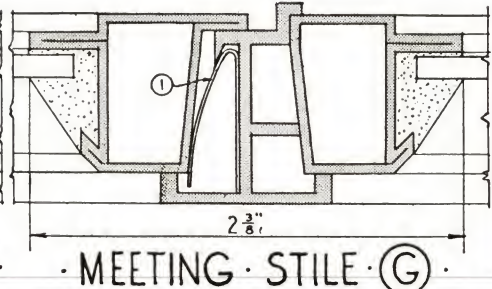
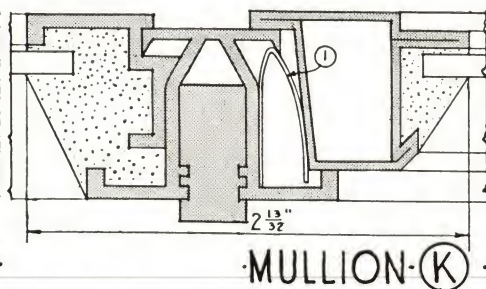
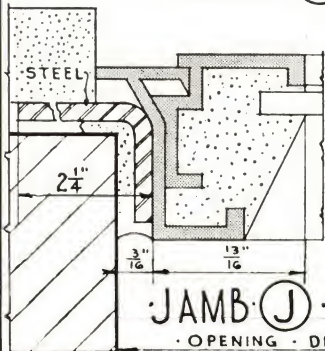
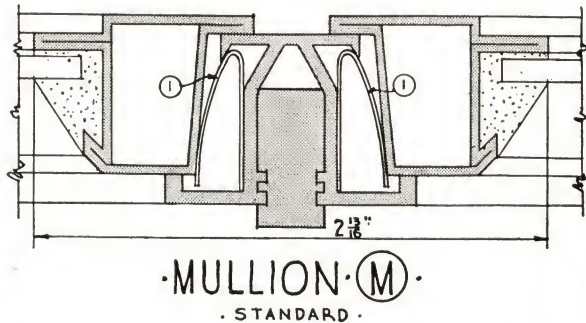
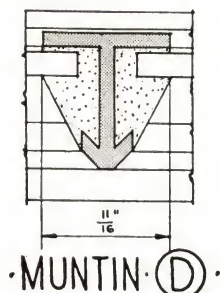
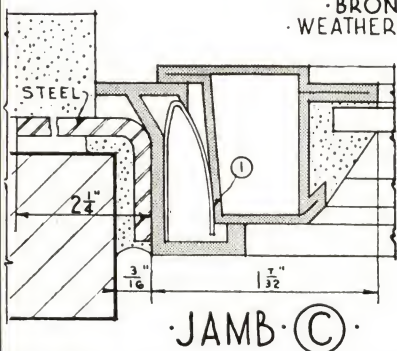
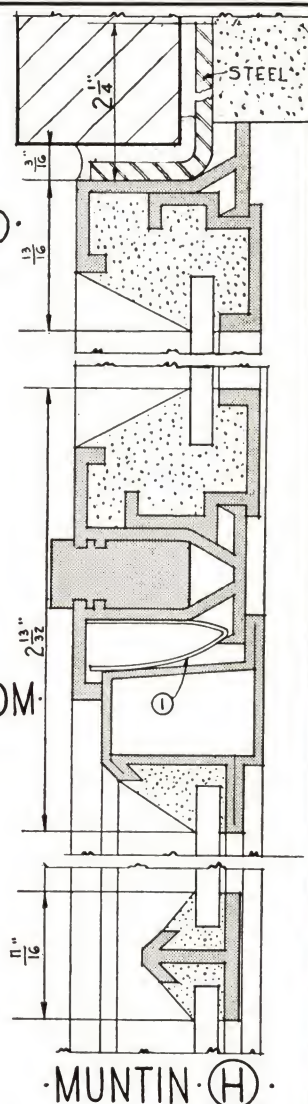


① PATENTED ·
· BRONZE ·
· WEATHER · STRIP ·



· HEAD ·
· (E) ·

· TRANSOM ·
· (F) ·



· OPENING · DIMENSION ·

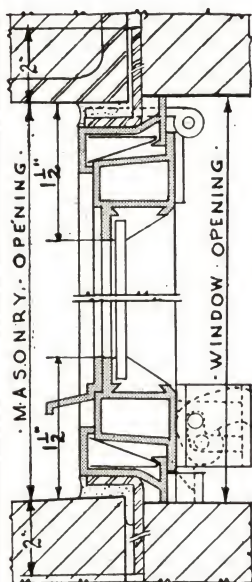
NOTE: Construction of Permatite Series K2 Aluminum In-Swinging Casement Window similar to above.

WINDOWS · REVOLVING DOORS · TABLETS · ARCHITECTURAL METAL WORK

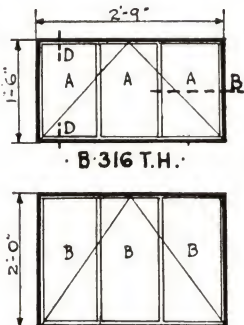


GENERAL BRONZE CORPORATION
34-19 Tenth Street Long Island City, N.Y.

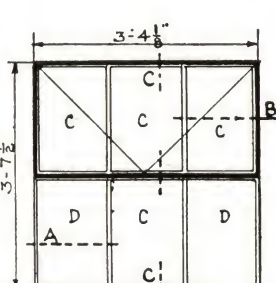
• SCALE • & • HALF • FULL • SIZE • DETAILS •
PERMATITE • BASEMENT & UTILITY • ALUMINUM • CASEMENT • WINDOWS
• CAN • ALSO • BE • FURNISHED • IN • BRONZE •



• SECTION D-D •



• B-316 T.H. •
• B-320 T.H. •



• NOTE • DEDUCT • 1/8 • EACH • WAY •
• FOR • MASONRY • OPENING •

• 3213 B.H. • 3213 T.H. •

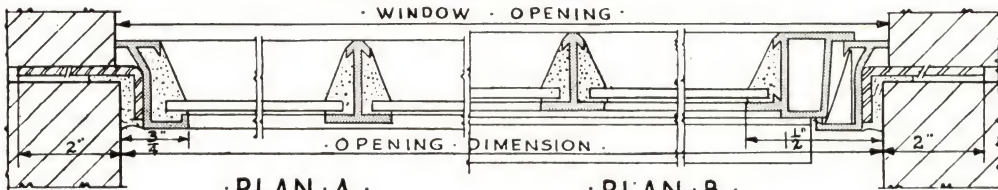
• GLASS • SIZES •

- A • 9 5/16 • 15 1/2 •
- B • 9 5/16 • 21 1/2 •
- C • 12 5/16 • 20 •
- D • 13 • 20 •
- E • 7 1/4 • 10 1/2 •
- F • 8 1/8 • 10 1/2 •
- G • 8 3/8 • 12 3/8 •
- H • 8 1/8 • 12 3/8 •

The line of utility windows hereon illustrated, conforming to the requirements of basement, garage, attic, play-room, etc., enables the Architect or Builder to provide for PERMATITE Windows throughout the house, in either Bronze or Aluminum.

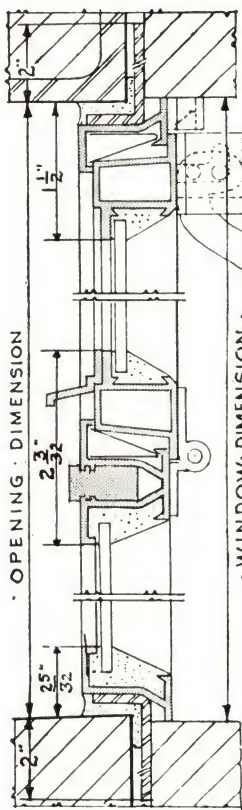
The sections of frame and sash and the construction are similar in all respects, to that of other PERMATITE Windows, as the large scale details clearly show. Also, utility windows are equipped with continuous airsealing, non-corrosive metal weatherstrips. All hinges, stays and locks are of solid bronze, match the windows, and are smooth, noiseless and efficient in operation.

• WINDOW • OPENING •



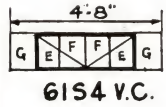
• PLAN A •

• PLAN B •

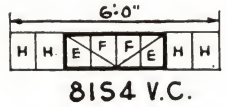


• SECTION C-C •

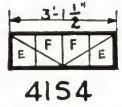
BOTTOM VENTILATORS



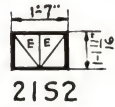
61S4 V.C.



81S4 V.C.



41S4



21S2

The bottom-hinged, in-swinging sash and frame here illustrated may be used, if desired, as a separate window; but it is designed, primarily, to combine with our PERMATITE Casement Windows to form a bottom, hopper type ventilator, as is indicated; and may be obtained in combination with any of our stock or special casements.

Sash and frame members exactly match in section those for stock casements, and are made of the same non-corrosive metal. Patented weatherstripping throughout is also non-corrosive. Heavy hardware, consisting of stays, hinges and cam-lock, correspond in material, color and finish with the balance of the hardware.

Each window ordered with bottom ventilator is assembled into one continuous, rigid steel sub-frame.

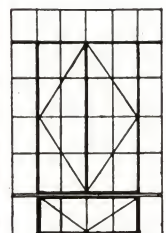
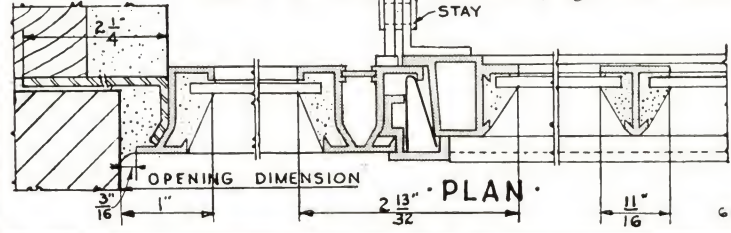
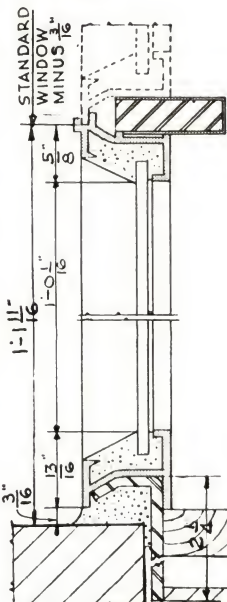


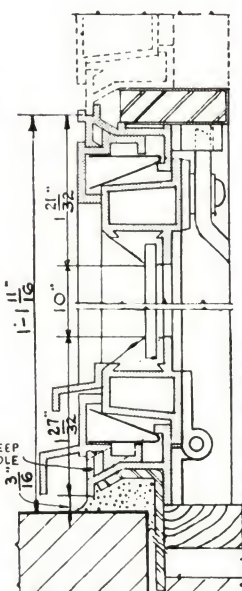
ILLUSTRATION OF
VENTILATOR.
61S4 V.C. APPLIED
TO 6528 V.C.



• PLAN •



• SECTION AT SIDELIGHTS & THRU VENT •

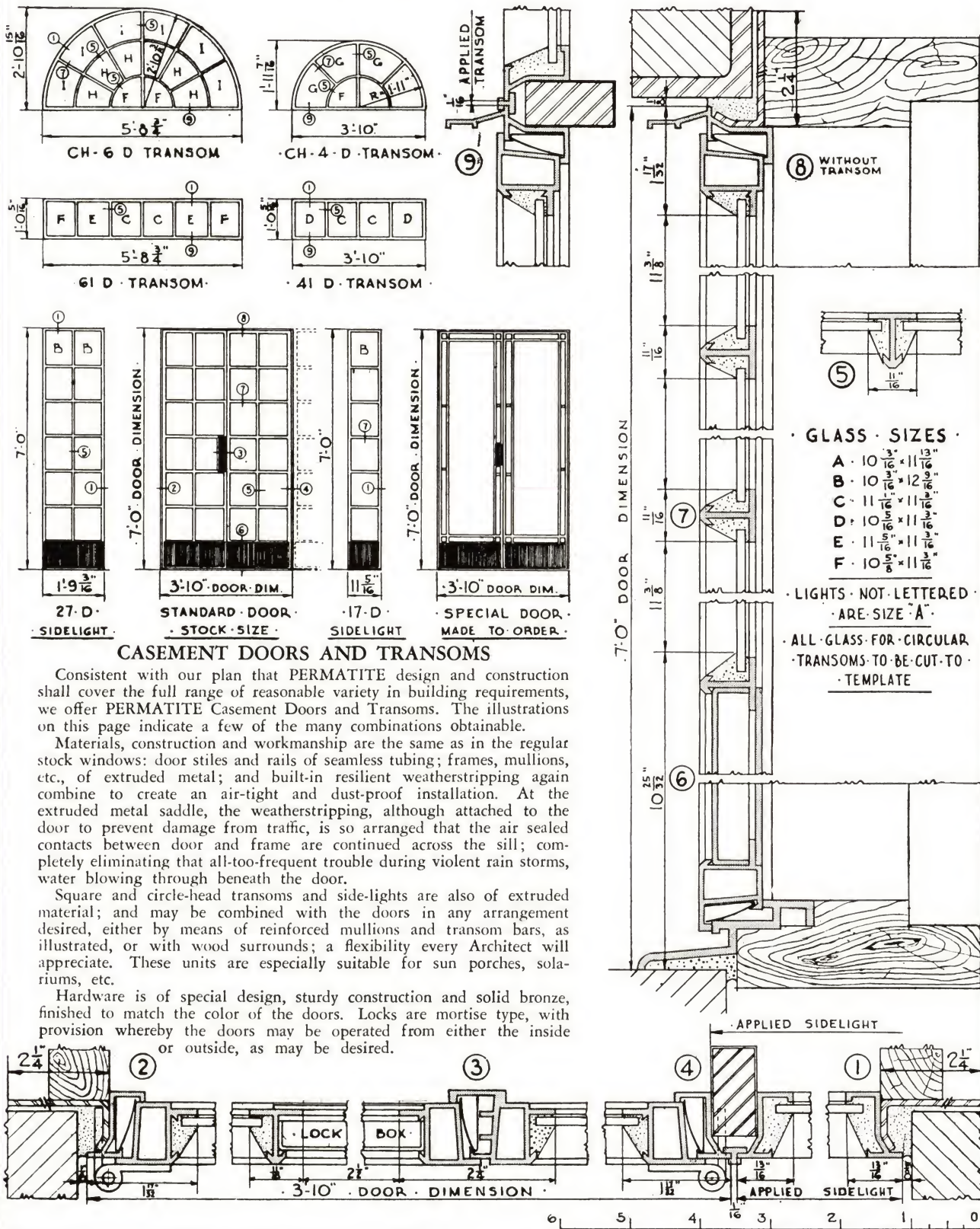


WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



GENERAL BRONZE CORPORATION
34-19 Tenth Street
Long Island City, N.Y.

· SCALE · & · HALF · FULL · SIZE · DETAILS ·
PERMATITE · DOORS · TRANSOMS · & · SIDELIGHTS · IN · ALUMINUM
· CAN · ALSO · BE · FURNISHED · IN · BRONZE ·



CASEMENT DOORS AND TRANSOMS

Consistent with our plan that PERMATITE design and construction shall cover the full range of reasonable variety in building requirements, we offer PERMATITE Casement Doors and Transoms. The illustrations on this page indicate a few of the many combinations obtainable.

Materials, construction and workmanship are the same as in the regular stock windows: door stiles and rails of seamless tubing; frames, mullions, etc., of extruded metal; and built-in resilient weatherstripping again combine to create an air-tight and dust-proof installation. At the extruded metal saddle, the weatherstripping, although attached to the door to prevent damage from traffic, is so arranged that the air sealed contacts between door and frame are continued across the sill; completely eliminating that all-too-frequent trouble during violent rain storms, water blowing through beneath the door.

Square and circle-head transoms and side-lights are also of extruded material; and may be combined with the doors in any arrangement desired, either by means of reinforced mullions and transom bars, as illustrated, or with wood surrounds; a flexibility every Architect will appreciate. These units are especially suitable for sun porches, solariums, etc.

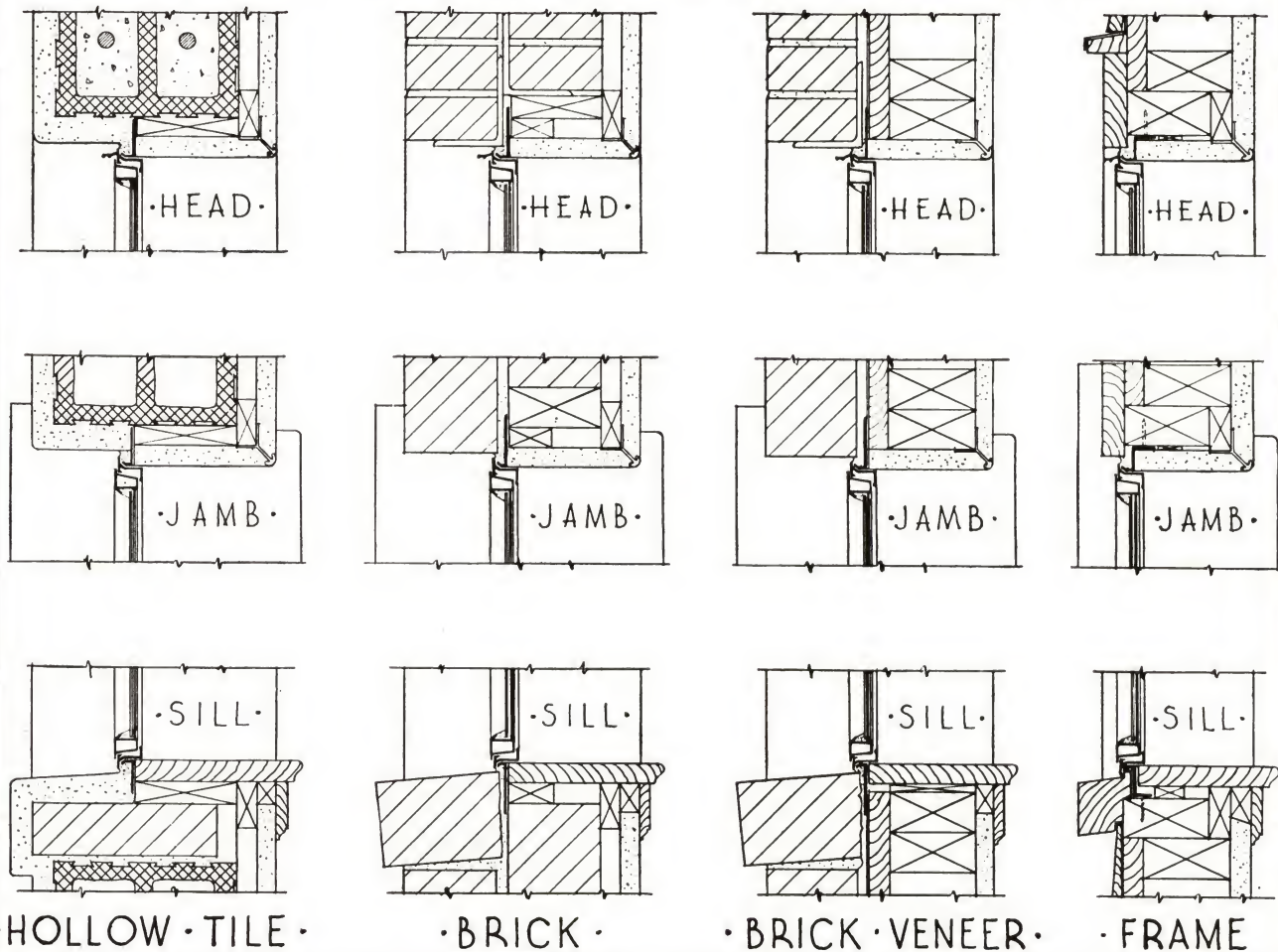
Hardware is of special design, sturdy construction and solid bronze, finished to match the color of the doors. Locks are mortise type, with provision whereby the doors may be operated from either the inside or outside, as may be desired.

WINDOWS · REVOLVING DOORS · TABLETS · ARCHITECTURAL METAL WORK



GENERAL BRONZE CORPORATION
34-19 Tenth Street
Long Island City, N.Y.

• INSTALLATION • DETAILS •
• FOR • ALL • PERMATITE • CASEMENT • WINDOWS •



STANDARD SPECIFICATIONS FOR
PERMATITE SERIES "K" CASEMENT WINDOWS

1. **Scope of Work:** This contractor shall furnish PERMATITE Series "K" bronze (or aluminum) Casement Windows, including all hardware and steel sub-frames, as manufactured by General Bronze Corporation, Long Island City, New York, for all window openings shown on Architect's drawings for.....

(Here insert extent of windows which are to be bronze or aluminum.)

2. **Materials:** Except as is hereinafter specified, all parts of window frames and sash shall be of solid bronze (or aluminum). All frame members shall be extruded bronze (or aluminum) not less than #12 B & S gauge. Stiles and rails of all sash shall be of seamless bronze tubing of #17 B & S gauge (or if aluminum of #12 B & S gauge).

Finished members of sash and frames shall be true to

dies and all moulded sections shall have clean sharp arrises, free from twists, bends or other imperfections. After extrusion, each piece shall be drawn through forming dies to insure absolute straightness and uniform thickness throughout its length.

Weatherstripping shall be of hard resilient special metal alloy of the required thickness to resist movement from the pressure exerted by wind at a velocity of 60 miles per hour.

Each window shall be provided with steel sub-frame, formed into special angle shape from #12 U. S. gauge blue annealed sheet; welded at corners into a continuous frame.

3. **Design, Construction and Workmanship:** Jamb, head and sill members of frames shall be designed to provide integrally formed pockets to receive and retain the metal weatherstripping in such manner that no raw edge of same will be exposed. Weatherstripping at jambs, sill





and head shall be so formed and positioned as to provide continuous lines of flexible but positively sealing contact between frame and closed sash without in any way binding the sash when operated. A similar weatherstrip shall be housed in the meeting stile of the sash to also form continuous contact. Weatherstrips and their housings shall be so formed that strips may be readily removed or replaced without dismantling the window.

Stiles and rails of sash shall be seamless tubing, designed with overlapping flanges to effect face

contents with the frame members and so formed as to provide a continuous wedge shaped groove all around the glass opening, to effectively key the glazing compound in its bed and permanently retain it in place. The design of the sash and their engagement with the frames shall be such as to prevent any rattling.

The free leg of the steel angle sub-frames shall be extended to form a continuous fin or weather stop for the entire extent of the window jambs and head. Provide holes at proper spacing in this leg to receive built-in anchors or bolts to attach the windows to the building structure.

All joints, copes and miters shall be precision machined and carefully fitted to create tight, hairline joints. All holes, slots, etc., shall be accurately drilled to template and holes for machine screws carefully tapped. All screws, bolts and rivets shall be made from special alloys to provide maximum strength at fastenings and where exposed shall match window material in color.

All material shall be carefully inspected before assembly to insure same has been accurately and thoroughly prepared. All surfaces of sub-frames shall be given a heavy coat of bitumastic paint before attaching non-ferrous frame members to same. Jambs, heads and sills are to be riveted to corresponding steel sub-frames under pressure, then assembled into complete frame units by solidly welding each corner. After welding, all corners shall be filled with leak proof compound under 100 lb. air pressure.

Stiles and rails of sash shall be assembled by welding or sweating together at corners which shall first be heavily reinforced. Ample reinforcements shall be built into the sash to receive the hardware.

Removable members and hardware shall be secured by special head machine screws of proper size and approved spacings. All other fastenings of exposed members shall be fully concealed.

(NOTE: If required, the following should also be included).

Provide muntins, arranged as shown, neatly and accurately fitted and assembled at the shop. Intersections of muntins and between muntins and sash members shall be fully lapped to insure firm engagement.

Provide, where shown, mullions between window units amply and continuously reinforced with steel to insure rigidity. All contacts between mullions and steel reinforcements shall be fully insulated by an extra heavy coat of bitumastic paint, applied before mullion is assembled. Mullion jambs shall correspond in every particular with design of window jambs as hereinbefore specified.

4. **Hardware:** Each casement window sash shall be equipped with the following hardware all of which shall be of solid bronze except where otherwise noted herein:

For non-screen type; each sash shall have one pair of projected adjustable friction type hinges and one three point locking device operated by lever handle.

For screen type; each sash shall have one pair projected non-friction type hinges, one rack and pinion lock operated by lever handle and one worm and gear type sash operator.

NOTE: For aluminum windows all bronze hardware shall be dull chrome plated to match aluminum, except worm and gear sash operators for aluminum windows shall be of special white metal alloy, die cast, with solid bronze sleeve on handle.

5. **Shop Drawings:** Before proceeding with the work, this contractor shall prepare and submit, for Architect's approval, complete shop drawings showing all parts of the frames and sash and fully dimensioned. Shop drawings shall be submitted in triplicate and no work shall be proceeded with until Architect's approval has been received.
6. **Infiltration Tests:** All casement windows shall be so designed and constructed that, when subjected to an air pressure equivalent to that exerted by wind at a velocity of twenty-five (25) miles per hour, the infiltration of air through the window shall not exceed one-fourth ($\frac{1}{4}$) of one cubic foot per minute per linear foot of sash perimeter. One window will be selected at random by the Architect and subjected to this infiltration test. If the first sample shall fail to meet the test, a second will be similarly selected and tested. If it also fails, such failure shall be sufficient grounds for the Architect, in his discretion, to reject all the windows made, and require new windows to be furnished which will fulfill all the above requirements. All infiltration tests shall be at the expense of this contractor.

The Architect may, but shall not be required to, waive infiltration tests on windows, provided the manufacturer thereof can furnish certified reports of tests, made by a testing laboratory approved by the Federal Government, showing that windows made by the manufacturer of the same type and design as are being furnished on this project have met or exceeded the requirements hereinabove specified.

7. **Protection:** Before shipment, this contractor shall apply approved protective solution to all exposed surfaces of the frame and sash in order to protect the metal from plaster, etc. The General Contractor shall be required to provide proper protection to the windows to prevent damage during the course of operations and shall remove the same before final inspection and cleaning down of the windows is started.

FINAL: Complete instructions will be mailed at the time of shipment of windows for the proper setting, caulking, grouting, glazing, cleaning and adjustment of the windows. Note that $\frac{1}{8}$ " thick glass should be used and same should be set with a good grade of metal glazing putty. A sufficient quantity of special glazing clips will be furnished with the windows, without charge.

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



GENERAL BRONZE CORPORATION

34-19 Tenth Street

Long Island City, N.Y.

POLACHEK WINDOWS

DOUBLE-HUNG AND CASEMENT

(PATENTED)

Bronze or Aluminum

FOR HEAVY DUTY REQUIRED IN MONUMENTAL BUILDINGS



New York Life Insurance Co.
New York, N. Y.
Cass Gilbert, Architect

Special Features ~

Rigid construction and exact alignment which prevent binding on the vertical movement, and lever type lifts to break contact at the sill. A concealed device, built into the side stiles and instantly adjustable, prevents all lateral movement of sash when in any position.

Weatherstripping is formed through steel dies as an integral part of main sash and frame members and to the same thickness. The University of Wisconsin tests prove the effectiveness of this sealing. Immovable from its initial position, too heavy to bend, too thick to wear out, this weatherstripping can never lose its effectiveness.

Careful designing of self-reinforced members has reduced face widths to the minimum compatible with rigid construction requirements.

Pulleys and chain are readily replaceable. Sash and frame, being of extra heavy non-ferrous metal, and so fitted and assembled that no joint can ever open or leak, will outlast the useful life of the building without repairs, replacements or painting.

BRIEF DESCRIPTION OF THE POLACHEK PATENTED DOUBLE-HUNG AND CASEMENT WINDOWS

The POLACHEK Patented Double-Hung Window, owned and manufactured exclusively by General Bronze Corporation, is air-tight, weatherproof, rattle-proof, non-rusting, permanent and quiet in operation. Salient patent features are a series of accurately-matched integral wedge-shaped tongues and grooves, effecting positive multiple contacts throughout the perimeter of both sashes when closed, and adjustable devices concealed within the sash construction which effectively prevent sash rattling while in any position.

The design of the window is simple, dignified and architecturally correct. Frame and Sash are so designed as to combine sufficient strength with the maximum obtainable of daylight opening. Sash provided for glazing from inside. Construction is rigid and permanent. Mitres, copes, tenons, and all other inter-sections are precision machined; members are carefully fitted and assembled, and each unit thoroughly

inspected before assembly. Workmanship is assured through employment of artisans trained in handling fine ornamental bronze work.

STANDARD EQUIPMENT: General Bronze Hardware is standard for all casements. Attractive, sturdy and efficient, it harmonizes perfectly with this most attractive type of window. Note particularly the absence of extreme projections and the general compactness of operating and engaging parts, not obtainable in other makes.

STANDARD AND SPECIAL EXTRA EQUIPMENT for casement windows is the same as noted for Double Hung Windows.

Complete architectural specifications and details will be supplied on request.

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK

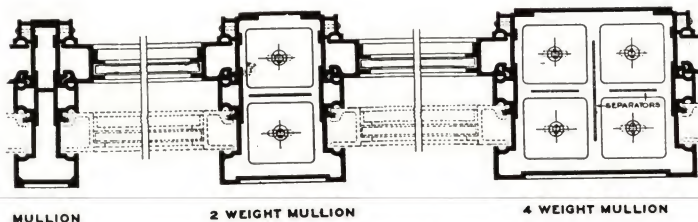
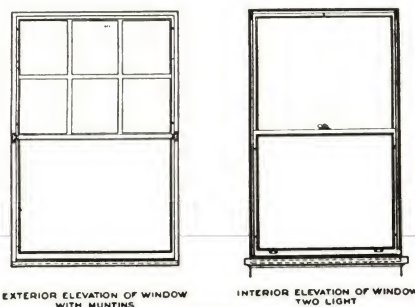
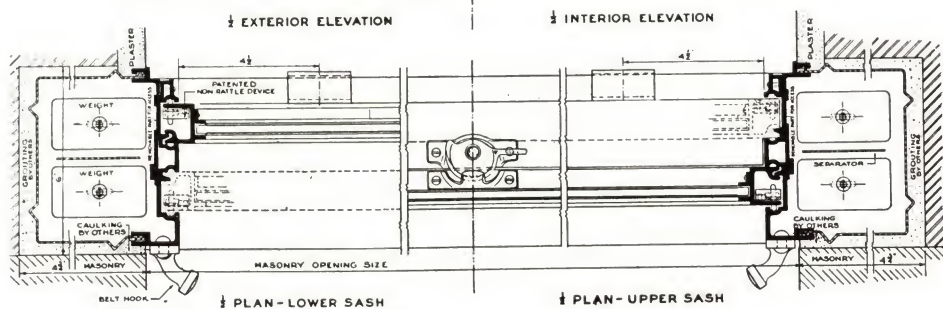
GENERAL BRONZE CORPORATION

34-19 Tenth Street

Long Island City, N.Y.



DETAILS OF "POLACHEK" PATENTED
DOUBLE HUNG WINDOWS
GENERAL BRONZE CORPORATION
LONG ISLAND CITY - NEW YORK



MULLION

2 WEIGHT MULLION

4 WEIGHT MULLION

EXTERIOR ELEVATION OF WINDOW
WITH MUNTINS

INTERIOR ELEVATION OF WINDOW
TWO LIGHT

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



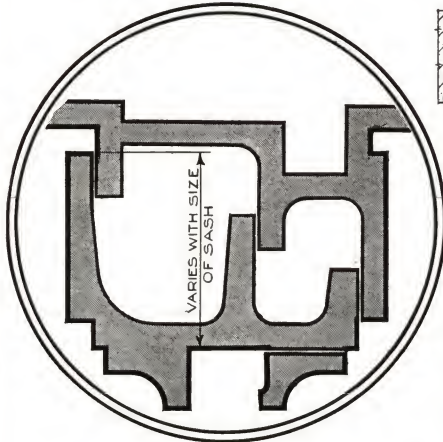
GENERAL BRONZE CORPORATION

34-19 Tenth Street

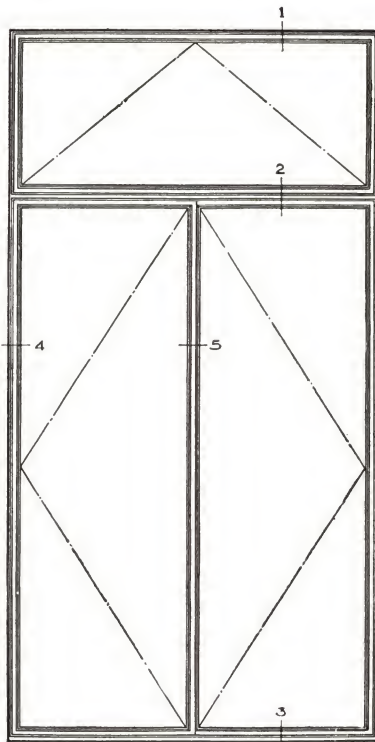
Long Island City, N.Y.

DETAILS OF TYPES "A" POLACHEK CASEMENT WINDOWS

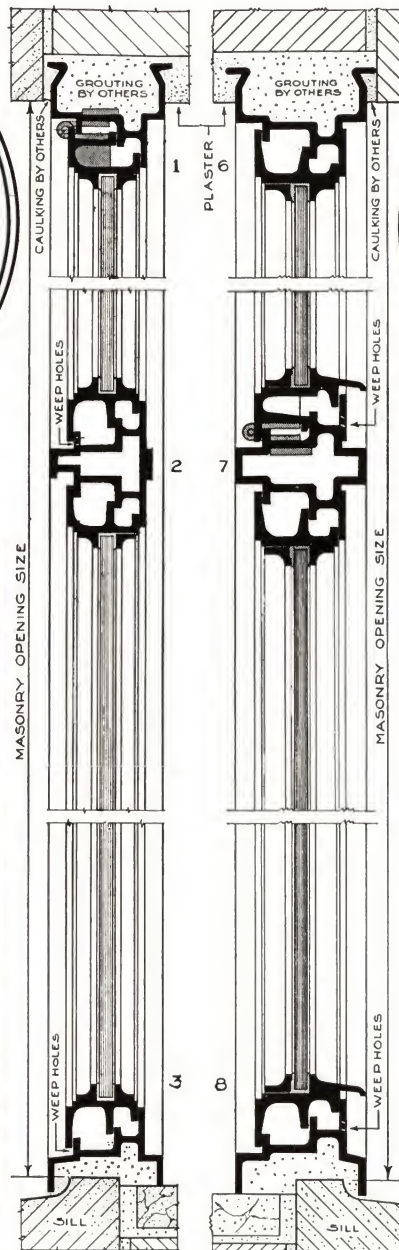
F.S. DETAIL



TYPE "A1"

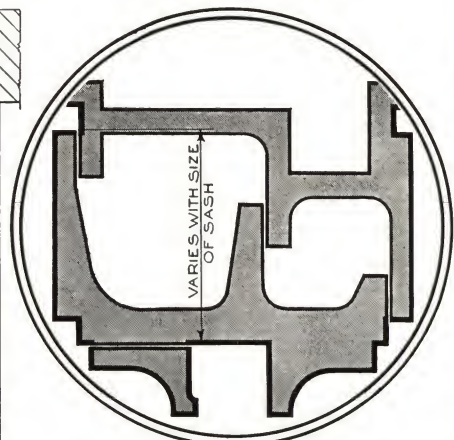


TYPE A
3 POINT CONTACT OPEN SECTION
CASEMENT WINDOW

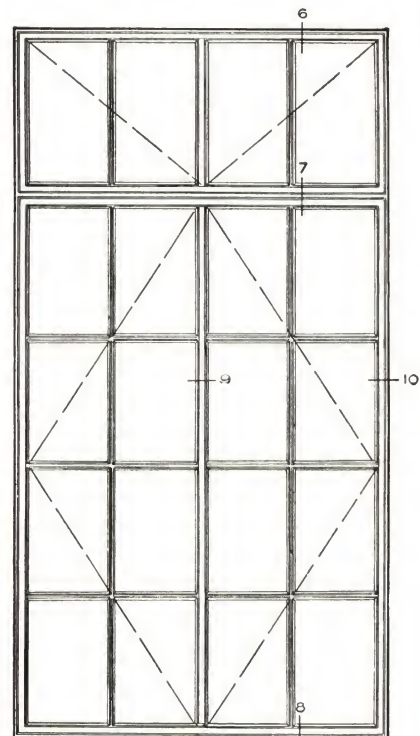


SECTION

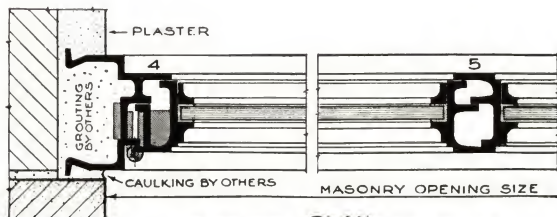
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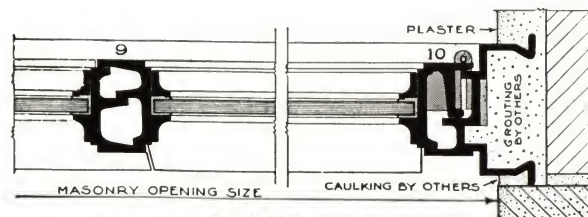
TYPE "A2"



TYPE A2
3 POINT CONTACT OPEN SECTION
CASEMENT WINDOW



PLAN
CASEMENT WINDOW SWINGING OUT.



PLAN
CASEMENT WINDOW SWINGING IN



PARTIAL LIST OF INSTALLATIONS OF BRONZE AND ALUMINUM DOUBLE HUNG AND CASEMENT WINDOWS

<i>Building</i>	<i>Location</i>	<i>Architects</i>
N. Y. LIFE INSURANCE CO.	New York, N. Y.	Cass Gilbert
PRUDENTIAL LIFE INSURANCE BLDG.	Newark, N. J.	Cass Gilbert
WEST VIRGINIA STATE CAPITOL	Charleston, West Va.	Cass Gilbert
U. S. SUPREME COURT BLDG.	Washington, D. C.	Cass Gilbert, Cass Gilbert, Jr., & J. R. Rockart and David Lynn, Archt. of the Capitol
U. S. COURT HOUSE BUILDING	New York, N. Y.	Cass Gilbert, Inc., & U. S. Supervising Archt.
PENNSYLVANIA RAILROAD BUILDING	Philadelphia, Pa.	Graham, Anderson, Probst & White
MEDICAL ARTS BUILDING	Cleveland, Ohio	Graham, Anderson, Probst & White
KOPPERS BUILDING	Pittsburgh, Pa.	Graham, Anderson, Probst & White
FOREMAN NATIONAL BANK	Chicago, Ill.	Graham, Anderson, Probst & White
CHASE NATIONAL BANK	New York, N. Y.	Graham, Anderson, Probst & White
MITSUI MAIN BUILDING	Tokyo, Japan	Trowbridge & Livingston
CENTRAL UNION TRUST CO.	66 Broadway, N. Y.	Cross & Cross
FIRST NATIONAL BANK OF BOSTON	Buenos Ayres Branch	York & Sawyer
NORTHWESTERN MUTUAL LIFE INS. CO.	Milwaukee, Wis.	Holabird & Root
MUTUAL BENEFIT LIFE INS. CO.	Newark, N. J.	John H. & Wilson C. Ely
MUNICIPAL BUILDING	East Orange, N. J.	John H. & Wilson C. Ely
U. S. POST OFFICE, COURT HOUSE & CUSTOMS, ETC.	Detroit, Michigan	Robert O. Derrick, Inc., & U. S. Supervising Archt.
NEBRASKA STATE CAPITOL BUILDING	Lincoln, Neb.	Bertram Goodhue Associates
NEW YORK COUNTY COURT HOUSE	New York, N. Y.	Guy Lowell
N. Y. STATE OFFICE BUILDING	Albany, N. Y.	W. E. Haugaard
N. Y. STATE OFFICE BUILDING	New York, N. Y.	W. E. Haugaard
CITY HALL ANNEX	Philadelphia, Pa.	Phillip H. Johnson
STERLING MEMORIAL LIBRARY	New Haven, Conn.	James Gamble Rogers
U. S. POST OFFICE	Philadelphia, Pa.	Rankin & Kellogg & U. S. Supervising Archt.
CHEMICAL NATIONAL BANK	New York, N. Y.	Walker & Gillette
OZONE PARK NATIONAL BANK	Woodhaven, N. Y.	Uffinger, Foster & Bookwalter
NEWPORT SAVINGS BANK	Newport, R. I.	Thomas M. James
APARTMENT 740 PARK AVENUE	New York, N. Y.	Rosario Candela
FRED F. FRENCH CO. BUILDING	New York, N. Y.	Fred F. French Co.
PHILLIPS OFFICE BUILDING	Butler, Pa.	Janssen & Cocken
GOELET BUILDING	New York, N. Y.	E. H. Faile & Co.
DEPTS. OF HEALTH, HOSPITALS & SANITATION BUILDING	New York, N. Y.	Chas. B. Meyers
FEDERAL RESERVE BOARD	Washington, D. C.	Paul P. Cret
STATE CAPITOL BUILDING	Salem, Oregon	Trowbridge & Livingston, Francis Keally Assoc. Architects
N. Y. HISTORICAL SOCIETY	New York, N. Y.	Walker & Gillette
RACKHAM GRADUATE SCHOOL	Ann Arbor, Mich.	Smith, Hinchman & Grylls, Inc.
APT. HOUSE, 19 E. 72ND ST.	New York, N. Y.	Mott B. Schmidt & Rosario Candela
ST. LUKE'S HOSPITAL	New York, N. Y.	York & Sawyer
COLUMBIA PRESBYTERIAN HOSPITAL	New York, N. Y.	James Gamble Rogers
LENOX HILL HOSPITAL	New York, N. Y.	York & Sawyer
WM. K. VANDERBILT RESIDENCE	Palm Beach, Fla.	Treanor & Fatio
ORANGE COUNTY OFFICE BLDG.	Goshen, N. Y.	Whitman S. Wick
N. Y. C. FERRY BOATS (3)	Mariners Harbor, S. I.	Dept. of Plant & Structures
FIRE STATIONS (9)	Chicago, Ill.	Paul Gerhardt, Jr.
ARTHUR C. NIELSEN, RESIDENCE	Winnetka, Ill.	Benjamin H. Marshall Co.
MUNICIPAL BUILDING	New York, N. Y.	Borough President's Office
FRANKLIN B. KIRKBRIDE, RESIDENCE	New Canaan, Conn.	Robertson Ward
HOSPITAL FOR CHRONIC DISEASES	Welfare Island, N. Y.	Butler & Kohn, York & Sawyer
JULIAN STREET, JR., RESIDENCE	Scarborough, N. Y.	Harrison & Foulhoux

WINDOWS • REVOLVING DOORS • TABLETS • ARCHITECTURAL METAL WORK



GENERAL BRONZE CORPORATION

34-19 Tenth Street

Long Island City, N.Y.

PERMATITE WINDOWS

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WELFARE ISLAND HOSPITAL GROUP, New York City

Associated Architects—York & Sawyer, Butler & Kohn

Builders—Cauldwell-Wingate Co.

OF BRONZE OR ALUMINUM

Comprising DOUBLE-HUNG WINDOWS
CASEMENT WINDOWS • UTILITY WINDOWS
CASEMENT DOORS • • *Also including*
windows of "POLACHEK" Extra heavy sections



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